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FUR SEAL ARBITRATION.

PROCEEDINGS

OF THE

TRIBUNAL OF ARBITRATION,

CONVENED AT PARIS

UNDER THE

TREATY BETWEEN THE UNITED STATES OF AMERICA AND GREAT
BRITAIN, CONCLUDED AT WASHINGTON FEBRUARY 29, 1892,

FOR THE

DETERMINATION OF QUESTIONS BETWEEN THE TWO GOV-
ERNMENTS CONCERNING THE JURISDICTIONAL
RIGHTS OF THE UNITED STATES

IN THE

WATERS OF BERING SEA.

VOLUME III.

WASHINGTON:
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1895.

FUR-SEAL ARBITRATION.

APPENDIX

TO

THE CASE OF THE UNITED STATES

BEFORE THE

TRIBUNAL OF ARBITRATION

TO CONVENE AT PARIS

UNDER THE

PROVISIONS OF THE TREATY BETWEEN THE UNITED
STATES OF AMERICA AND GREAT BRITAIN,
CONCLUDED FEBRUARY 29, 1892.

VOLUME II.

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TESTIMONY RELATING TO PRIBILOF ISLANDS.

Deposition of John Armstrong, engineer of lessees' steamer and agent on St. Paul Island.

MANAGEMENT.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

John Armstrong, having been duly sworn, deposes and says: I am 50 years old, and reside in San Francisco. I was employed in Alaska service in connection with the seal fisheries from 1868 to 1886, inclusive. During the first eight years of the time I was chief engineer of the steamer plying between San Francisco and the seal islands and other Alaska ports, and from 1877 to 1886, inclusive, as agent of the Alaska Commercial Company, living almost constantly for the whole ten years upon St. Paul Island. I always assisted in the seal-killing, and, in common with all other employes on the islands, made the seals my study and care. Everyone connected with the business, from the superintendent to the humblest laborer, is, when at the islands, keenly alive to every occurrence relating to the herd. There is nothing else but seals to attract our attention when there, and the most trivial incidents in regard to the rookeries, as well as the more serious ones, are noted and discussed.

For the first few years I was on the islands the rookeries grew larger every year, and I was told by the natives and others that they had grown a good deal since the Americans first took them. After 1882 they seemed to stay about the same, as far as the number of breeders was concerned, as long as I was there. The skins taken prior to 1886 weighed from 6 to 10 pounds each, averaging about 8 pounds per skin; but I understand from those who remained there on duty that much smaller ones were afterwards taken, because the large seals had become scarce and were needed for rookery service. I observed that very few seals go out to sea to feed during June, July, and August, except females and some of the younger males. The greater part of the older bachelors appear to be always about the rookeries after the cows come, and comparatively few as old as five years come up with the droves to the killing grounds. The same seal is sometimes driven several times during the season. One with a peculiar spot on him was driven in more than a dozen times in one season. His skin was in such condition that we did not want it. But I do not think that he or any other one of the drove was injured by the exertion. The driving gave them, with rare exceptions, very little more exercise than they appeared

Experience.

Increase of rookeries.

Weight of skins.

Females feeding.

Driving and re-driving.

to take when left to themselves. The practice of driving has always been conducted the same as when I was on the islands, and the seals have thriven and increased under it. They grow much tamer, too, with repeated driving, and seem to learn the road and what is expected of them on the killing ground. It is much less trouble to handle a drove of seals from the rookery very near the village than those from a distant point. They grow very tame when reared near where people are passing and repassing, and none of them are as wild or show as much fear as sheep ordinarily do when approached by man.

The large bachelor seals arrive on the islands from the 1st to the 15th of June each year, sleek and fat as they can be, while the same seals in September are very thin in flesh, or in about the same condition as the bull seals then are, which, it is well known, do not leave the rookeries for some four months. On the other hand, the yearlings and two-year-olds remain in good condition the entire season, and must, I think, go off to the feeding grounds occasionally during the summer. The females go and come after the first few days of their stay at the islands. I have seen rookeries, and particularly the one on the reef, plainly in sight from St. Paul village, swarming with pups and comparatively few mothers in sight, and it has sometimes remained so for twenty or thirty hours at a time, convincing me that they must have gone a considerable distance from the islands for food. Up to 1884 there were never enough dead pups on the rookeries to cause any remark. Occasionally one would be trampled to death by the fighting bulls, but the loss was almost nothing until the marine hunters began their work, and it grew to be quite noticeable before I left the islands. It was easy enough to see what they died of. They simply starved to death, wandering about and bleating until it made one's heart ache to see them. Their mothers had been killed off in the water, and the pups lived and suffered for weeks. They are very tenacious of life, holding out six or eight weeks or more after they lose their mothers.

I am asked whether the seals copulate in the water. It is a question that is often discussed at the islands, and neither the scientific observers nor the unscientific are able to agree about it. I have seen seals in position when it seemed to be attempted, but doubt whether it is effectually accomplished. If it were, I think we should see pups sometimes born late and out of season, but such is not the case.

I believe there has been a great decrease of seals on the islands since I left there, and this is no doubt due to pelagic hunting. The extermination of the animals and of the industry will be swift and sure unless the female seals are protected from the devastation now going on, and I do not believe it possible to protect them as they should be unless the North Pacific as well as Bering Sea is included in any measures adopted to this end.

JOHN ARMSTRONG.

Subscribed and sworn to before me this 10th day of May, A. D. 1892.
[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Charles Bryant, special Treasury agent on Pribilof Islands.

HABITS.

DISTRICT OF COLUMBIA,

City of Washington, ss :

Charles Bryant, being duly sworn, deposes and says: I am a resident of Mattapoisett, Plymouth County, State of Massachusetts, and am 72 years of age. In September, 1868, I was appointed a special Treasury agent to go to Pribilof Islands for the purpose of investigating and reporting as to the habits of the fur seal, the condition of the islands, and the most advantageous plan to be adopted for the government and management of the same. Pursuant to such appointment, I proceeded to the Pacific coast, and in March, 1869, I landed on St. Paul Island, remaining there until September of the same year. I then returned to Washington and laid my report before the Treasury Department. I again went back to the islands in July, 1870, and remained there until the fall of 1871. Then, in April, 1872, I again arrived at the islands, this time in the capacity of a special agent of the Treasury Department in charge of the seal islands. I was upon the islands as such agent from that time and during the sealing season from 1872 to 1877, inclusive, and passed three winters there, viz, those of 1872, 1874, and 1876. Since the year 1877 I have not visited the seal islands. I have examined the breeding areas of 1870, indicated by H. H. McIntyre on charts A, B, C, D, E, F, and G, of St. Paul Island, and they are to the best of my knowledge and belief correct. I have also examined the areas of increase shown by him upon the same charts as applicable to the breeding rookeries in 1882, and they were proportionately correct in 1877, the last year of my stay upon the islands, the increase up to that time having been about one-half of that shown by him. The above statement is true, also, to the best of my knowledge and belief, of the breeding areas of 1870 and the increase of 1882, indicated by Thomas F. Morgan upon charts H, I, J, and K, of St. George.

Experience.

His report to Treasury.

Breeding areas and areas of increase shown by H. H. McIntyre on charts.

Breeding areas and areas of increase shown by Thomas F. Morgan on charts.

CHARLES BRYANT.

Subscribed and sworn to before me this 15th day of April, 1892.

[L. S.]

CHAS. L. HUGHES,

*Notary Public in and for the District of Columbia.**Deposition of Charles Bryant, special Treasury agent on Pribilof Islands.*

HABITS AND ROOKERIES IN 1869-'77.

DISTRICT OF COLUMBIA,

City of Washington, ss :

Charles Bryant, being duly sworn, deposes and says: I am a resident of Mattapoisett, Plymouth County, State of Massachusetts, and am 72 years of age. From 1840 to 1858 I was engaged in whaling in the North Pacific Ocean and Bering Sea. The latter portion of the time I was captain of a whaling vessel. I then retired to a farm located in the town of Fairhaven, in Bristol County, State aforesaid. In September, 1868, I was appointed a spe-

Experience

cial Treasury agent to go to the Pribilof Islands to investigate and to report as to the habits of the fur seal, the condition of the islands, and the most advantageous plan to adopt for the government and management of the same. Pursuant to such appointment I proceeded to the Pacific coast and in March, 1869, I landed on St. Paul Island and remained there until September of the same year. I then

returned to Washington and laid my report before the Report to Treasury. Treasury Department. I again went back to the islands in July, 1870, and remained until the fall of 1871. Then in April, 1872, I again arrived on St. Paul Island, this time in the capacity of special agent of the Treasury Department in charge of the seal islands. I was upon the islands as such agent from that time during the sealing seasons from 1872 to 1877, inclusive, and passed three winters there, namely, those of 1872, 1874, and 1876. Since the year 1877 I have never visited the seal islands, and have been in retirement at Mattapoisett aforesaid. During these years I was upon the islands I made a most careful study of seal life thereon, and examined and inquired of the natives in relation to the habits and former conditions of the fur seals.

The Alaska fur seal breeds nowhere else except on the Pribilof Islands. I took particular care in investigating the Breeds only on Pribilof Islands. question of what became of the seal herd while absent from the islands. My inquiries were made among the Alaskan Indians, half breeds, Aleuts, and fur-traders along the northwest coast and Aleutian Islands. One man, who had been a trapper for many years along the coast, stated to me that in all his experience he never knew of but one case where seals had hauled out on the Pacific coast, and that was when four or five landed on Queen Charlotte Island. This is the only case I ever heard of seals coming ashore at any other place on the American side of the Pacific except the Pribilof Islands. These seals are migratory, leaving the islands in the early winter and returning again in the spring.

The Pribilof herd does not mingle with the herd located on the Commander Islands. This I know from the fact that the Pribilof and Commander herds do not mingle. herd goes eastward after entering the Pacific Ocean, and from questioning natives and half breeds, who had resided in Kamschatka as employes of the Russian Fur Company, I learned that the Commander herd on leaving their islands go southwestward into the Okhotsk Sea and the waters to the southward of it and winter there. This fact was further verified by whalers who find them there in the early spring.

The Alaskan seals make their home on the Pribilof Islands because they need for the period they spend on land a peculiarly cool, moist, and cloudy climate, with very little Pribilof Islands, home of Alaskan seal. sunshine or heavy rains. This peculiarity of climate is only to be found on the Pribilof and Commander islands, and during my long experience in the North Pacific and Bering Sea I never found another locality which possessed these conditions so favorable to seal life. Add to this fact the isolated condition of the seal islands and we can readily see why the seals selected this home.

The pup seal is born on the rocky shores of these islands, the mother Pups born only on Pribilof Islands. evidently preferring a spot covered with broken lava rocks to the sand beaches. The birth takes place within two or three days after the female lands, and often within a few hours. When born the pup weighs from 4 to 5 pounds, and spends the first six weeks of its existence on land. Dur-



PART OF REEF ROOKERY, ST. PAUL ISLAND.

ing this period the pup is in no sense an amphibian, being as helpless in the water as a young chicken; it can not swim, and when thrown in the water would inevitably drown if not rescued by its mother or by man. Therefore, if a pup was born in the water it would certainly perish. I have seen cases where a mother, being taken by the pains of parturition, sought the nearest beach rather than a rookery, not having time to reach the latter before the birth of her pup. If pups could be born in the water such cases as the last stated would not occur. The pup is nursed by its mother from its birth so long as it remains on the islands, the mother leaving the islands at different intervals of time after the pup is three or four days old. I have seen pups, which I had previously marked by a ribbon, left for three or four days consecutively, the mothers going into the water to feed or bathe. A mother seal will instantly recognize her offspring from a large group of pups on the rookery, distinguishing it by its cry and by smell; but I do not think a pup can tell its own mother, as it will nose about any cow which comes near it. A female seal does not suckle any pup save her own, and will drive away any other pups which approach her.

I am positive that if a mother seal was killed her pup must inevitably perish by starvation. As evidence of this fact I will state that I have taken stray, motherless pups found on the sand beaches and placed them upon the breeding rookeries beside milking females and in all instances these pups have finally died of starvation. When about 4 weeks old the pups get together in groups or pods and approach nearer and nearer to the shore; after a week or so they are down near the surf but run back terrified whenever a wave comes in. They then begin to get acquainted with the sea and little by little overcome their terror and learn to use their flippers. I have seen a female sometimes pick her pup up by the back of the neck and carry it out into the water and let go of the little animal, catching it before it drowned and holding it above the waves; this she would repeat time and again until the little fellow got over his terror and began to use his flippers. By the 1st of September nearly all the pups have learned to swim, and until the time of their departure from the islands spend their time both on land and in the water, but by far the greater portion of this period is spent on land. The time they leave the islands is generally the middle of November, but the weather is the true mark of such departure, they seeming to be unwilling to stay after the first snow or sleet comes. On departing from their island home they proceed southward through the Aleutian passes, the majority going through or to the eastward of the pass of longitude 172°. The cause of their departure is doubtless the approach of cold weather and the lack of sufficient food.

Migration, cause of.

Providing the conditions were the same on the islands the year round as they are in the summer, and providing the food supply was sufficient in the immediate vicinity of the islands, I think the seals would remain on or about the islands during the entire year. The seals evidently consider these islands their home and only leave them by reason of lack of food and inclement weather. Some seals remain about the islands until the first of January, and the winters of 1874 and 1875 being exceptionally mild, seals remained on or in the vicinity of the islands during the whole year.

From my inquiries and observations I am convinced the seals, after going through the Aleutian passes, seek the vast schools of fishes

which, at this season of the year, are to be found in the North Pacific, then following these fishes as they migrate towards the American coast for the purpose of spawning, they appear off the Californian coast during the early part of the year. The seals then go northward, still following these schools of fish, the males arriving again at Bering Sea in the early part of May and the females in June and July and proceeding at once to their island home.

The young seals are now a year old, and I am of the opinion the sexes herd together. This year they leave the islands a little earlier than the previous season and make the same migration in search of food. Returning again, this time as "two-year-olds," the males go upon the hauling grounds with the bachelor seals and the females land on the breeding rookeries. It is probable that the females of this age are fertilized by the bulls and leave the islands in the fall pregnant.

In watching the seals while swimming about the islands I have seen cases where they appeared to be copulating in the water, but I am certain, even if this was the case, that the propagation of the species is not as a rule effected in this way, the natural and usual manner of coition being upon land.

Propagation effected only on land.

On returning the third year the young male goes again upon the hauling grounds and the female to the rookeries where she brings forth one pup. From this time until she is between 12 and 16 years of age she continues to bear one pup annually. Under my direction microscopic examinations were made of the female reproductive organs, which showed that some of the older females had borne at least eleven to thirteen pups.

When the male seal returns after his sixth or seventh migration he goes to the breeding rookeries, and, if he is able, becomes master of a harem with the title of "seecatch." He arrives now at the islands during the month of May and after repeated battles obtains a place upon the breeding grounds. He remains there about three months, that is, during the rutting season, without eating or drinking, never leaving his position. Here he gathers about him as many cows as he is able to place within the radius of the area controlled by him; the average seen at one time while I was on the islands was from fifteen to twenty to a bull; but as the cows were constantly going to and coming from the water it is impossible to calculate accurately the number to a harem. Probably not all the cows belonging to a bull were on shore at any one time; and I am of the opinion that a bull could if necessary serve seventy-five to a hundred cows during a season.

Bulls.

I am satisfied the principal food of the fur seal is fish. During the summer fish are practically unknown about the islands, but they abound in great quantities in all parts of Bering Sea, 30 to 40 miles from the islands. This fact came to my knowledge during my eighteen years' whaling experience in that locality. I do not think the male seals of any class feed to any extent while located at the islands, but the females are absent more or less of the time in search of food.

Food.

By my observation I am convinced that a seal can swim more rapidly than any species of fish, and I believe that a female could leave the islands, go to a fishing ground 100 miles distant and easily return the same day. I think seals can without difficulty swim 10, 15, or even 20 miles an hour for several hours at a time.

Speed in swimming.

I have further observed the fact that bulls have a tendency to return to the same place on the same rookery year after year. One bull in particular, which I knew from his peculiarities, returned to the same rock for five seasons.

During my observation only one class of bachelor seals on the islands showed any deficiency in numbers, and I accounted for this fact in my report to the Secretary of the Treasury, dated September 5, 1872, from which I quote: "The weather, although excessively foggy and disagreeable to the residents of the islands, has been especially favorable to the young seals. It is also observable that a larger number of yearlings or last year pups than usual have returned to the islands the present season. There is now only a deficiency of one class, that of the four and five year old seals. This is clearly traceable to the following causes: During the season of 1868 there were killed on both islands 220,000 animals for their skins, and in the season of 1869, 85,000 for their skins. At that time the relative value of the sizes or ages of the skins was not understood, and all the skins being paid for at the same price, the natives who were quick to perceive the difference between taking a small skin and a large one and carrying it to the salt houses, killed all the yearlings they could; these were the products of 1867 and 1868. These were sent forward in 1870 to market and overstocked it with small skins. This created a demand for larger skins, and the Alaska Commercial Company instructed their agents to take all the large skins possible in 1871; this was done and as many 4 and 5 year old seals as could be taken. This again fell on the already diminished product of 1867 and 1868. When these were sent to market they were found too old, and now the proper medium being ascertained the seals will be selected accordingly."

Effect of slaughter of 1868.

It should be borne in mind that the killing in 1868 was done by unauthorized persons before the Government could arrange for the protection of the rookeries. From 1870 up to the time I left the islands in 1877, the females, of which I made as careful a calculation as is possible by measuring the areas covered by the breeding rookeries, increased from 4 to 5 per cent annually.

Increase.

The whole time I was there there was an ample supply of full-grown vigorous males sufficient for serving all the females on the islands, and every year a surplus of vigorous bulls could always be found about the rookeries awaiting an opportunity to usurp the place of some old or wounded bull, unable longer to maintain his place on the breeding grounds. I should except from this general statement the seasons of 1873 and to 1875 when the destruction of young males in 1868 and the error made by the company under their misapprehension as to the character of skins to be taken for market, perceptibly affected the males on the breeding grounds. It is not certain that the fertilizing of the females was thereby affected and this gap was filled up and from this time on there was at all times not only a sufficiency but a surplus of male life for breeding purposes.

Sufficiency of male life.

The increase in female life was readily determined by noticing annually the lines of demarkation of the breeding grounds among the rocks, and also from the fact that many lanes through the breeding rookeries to the hauling grounds, left by the old males for the use of the bachelors, which existed in 1870, were entirely closed up by the breeders in 1877, and the bachelor seals were compelled to haul out on the sand beaches. Another proof of this increase was the fact that in 1870 the breeding seals confined themselves to the

Increase.

shores covered with broken rocks, but in 1877 the areas had increased to such an extent that a considerable percentage of the breeding seals extended out onto the sand beaches, which before they had carefully avoided, for reasons I have heretofore stated.

The pups on the rookeries were fat and healthy, and while I was on the islands no epidemic disease ever appeared among them, nor did the natives have stories of an epidemic ever destroying them. A dead pup was rarely seen, the dead being a small fraction of 1 per cent to the whole number of pups. I do not think while I was there I saw in any one season fifty dead pups on the rookeries, and the majority of dead pups were along the shore, having been killed by the surf.

During the entire time I was upon the islands the most stringent regulations were always enforced in relation to disturbing the rookeries in any way. The use of firearms during the season the seals were upon the islands was forbidden, and this was enforced by taking possession of the guns of the natives or by removing the locks and retaining them until the close of the season; also all dogs were, in 1869 or 1870, destroyed on the islands, and no others were allowed to be brought here.

The driving and killing of the bachelor seals was always carried on in the most careful manner, and during my stay upon the islands there was practically no injury caused to seal life by overdriving, and after 1873, when horses and mules were introduced by the lessees to transport the skins, the seals were not driven as far, killing grounds being established near the hauling grounds and the loss by overdriving was reduced to the fraction of 1 per cent. Redriving of the growing males from the various hauling grounds was made at intervals of several days, and did not cause them any injury, and I am thoroughly satisfied that there was not a single instance in which the virility of a male seal was destroyed or impaired by redriving.

In all cases, at suitable intervals and before driving to the killing grounds, the herd was halted and the males of 5 years old or older were allowed to escape. Females were never driven, except in a few cases where a barren one had hauled up with the bachelors, but I do not think in ten thousand females there is one barren.

The general methods employed under American rule were far superior to those of the Russians, as will be readily understood from the following facts.

When I first visited the seal islands in 1868 the natives were living in semi-subterranean houses built of turf and such pieces of driftwood and whale bones as they were able to secure on the beach. Their food had been prior to that time insufficient in variety, and was comprised of seal meat and a few other articles, furnished in meager quantity by the Russian Fur Company. They had no fuel, and depended for heat upon the crowding together in their turf houses, sleeping in the dried grasses secured upon the islands. Forced to live under these conditions they could not of course make progress towards civilization. There were no facilities for transporting the skins. They were carried on the backs of the natives, entailing great labor and hardship, and by reason of these tedious methods the taking of the annual catch was extended over a number of months, being a continual source of molestation to the hauling seals.

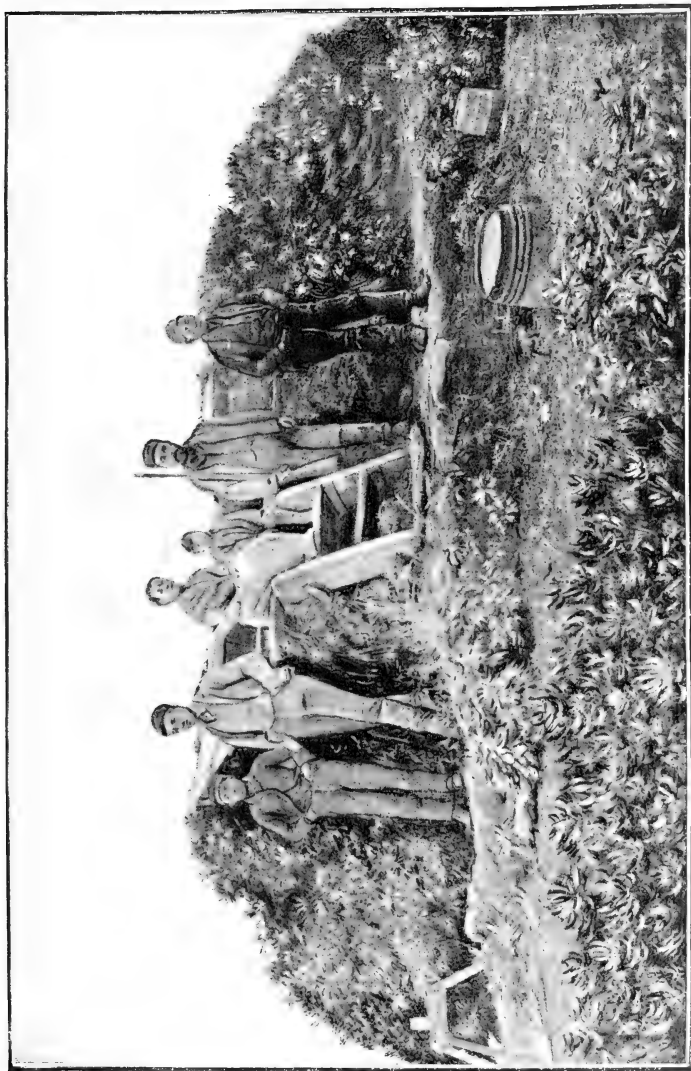
Firearms and dogs forbidden on islands.

Driving and killing

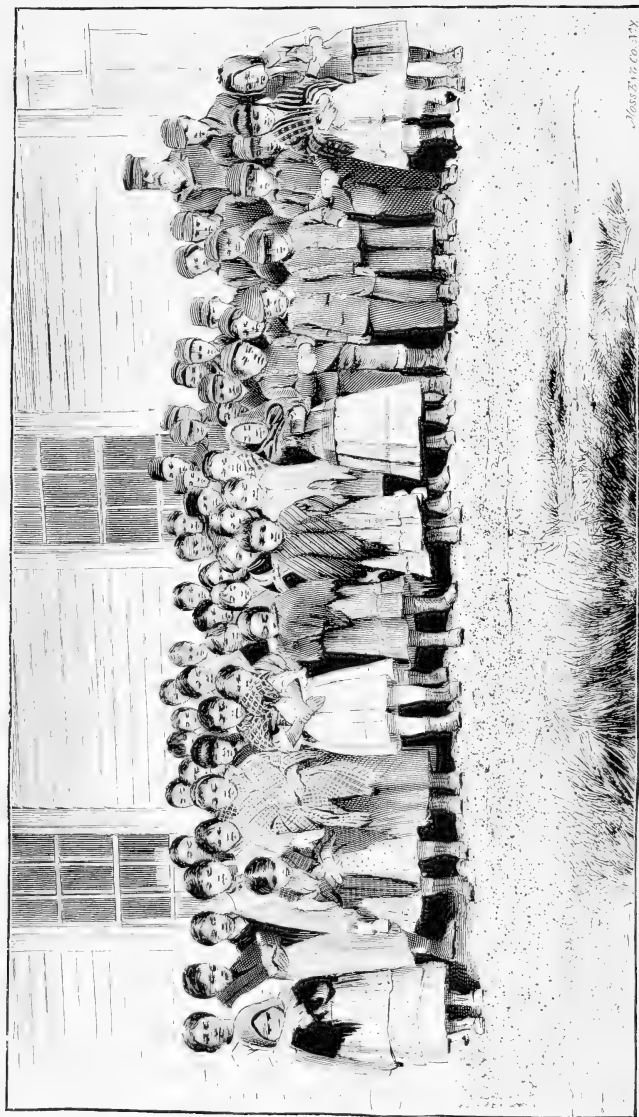
Redriving.

Improved management under American control.

Condition of natives under the Russian Company.



A BARRABARRA OR NATIVE DWELLING ON ST. PAUL ISLAND.
Similar to the dwellings which comprised the village under Russian occupation.



SCHOOL BUILDING ON ST. PAUL ISLAND.

Very soon after the islands came into the possession of the American Government all this was changed. Their underground earthen lodges were replaced by warm, comfortable wooden cottages for each family; fuel, food, and clothing were furnished them at prices 25 per cent above the wholesale price of San Francisco; churches were built and school houses maintained for their benefit, and everything done that would insure their constant advancement in the way of civilization and material progress. Instead of being mere creatures of the whims of their rulers they were placed upon an equal footing with white men, and received by law a stipulated sum for each skin taken. So that about \$40,000 was annually divided among the inhabitants of the two islands. In place of the skin-clad natives living in turf lodges which I found on arriving on the island in 1869, I left them in 1877 as well fed, as well clothed, and as well housed as the people of some of our New England villages. They had school facilities, and on Sunday they went to service in their pretty Greek church with its tastefully arranged interior; they wore the clothing of civilized men and had polish on their boots. All these results are directly traceable to the seal fisheries and their improved management.

In addition to this the Alaska Commercial Company, as previously stated, had introduced far better facilities, such as boats, horses, mules, and carts, for transporting the skins, and improved methods of caring for them, which not only greatly reduced the labor required of the natives, but which, when aided by their improved physical condition and the increased number of the seals, enabled the company to take their full quota in thirty working days in 1877.

This alone enormously reduced the molestation of the seals on the hauling grounds, for in the old Russian days, as previously stated, the seals were driven and killed at all times during their presence on the island.

If the seals were as numerous to-day on the Pribilof Islands and the manner of driving and killing conducted in the same manner as during my experience there, one hundred thousand male seals of from 2 to 4 years of age could be taken from the hauling grounds annually for an indefinite period without diminution of the seal herd.

I am of the opinion that the Pribilof seal herd should be protected throughout Bering Sea and also in the North Pacific Ocean. A zone of 30, 40, or 50 miles about the islands in which sealing is prohibited would be of little or no protection, as the females, during the breeding season, after their pups are born, wander at intervals over Bering Sea in search of food. But to suppose an impossibility, even if such a zone could protect seal life, it would be impossible, on account of the atmosphere being so constantly foggy and misty, to prevent vessels from crossing an imaginary line drawn at such a distance from and about the Pribilof Islands.

CHARLES BRYANT.

Subscribed and sworn to before me, a notary public in and for the District of Columbia, this 16th day of April, 1892.

[L. S.]

SEVELLON A. BROWN.

Deposition of Joseph Stanley Brown, geologist in the U. S. Geological Survey and special agent of the Treasury.

HABITS AND ROOKERIES.

DISTRICT OF COLUMBIA,

City of Washington, ss:

Joseph Stanley Brown, being duly sworn, deposes and says: I am 36 years of age; am a citizen of the United States; reside in Mentor, Ohio; am by profession a geologist, and as such am employed in the U. S. Geological Survey.

Appointment as
special agent.

In April, 1891, I was ordered by the honorable the Secretary of the Interior, to whose direction the officers of the Geological Survey are subject, to report to the honorable the Secretary of the Treasury personally for special service. This I did, and on the 27th of that month I received from the latter a temporary appointment as special agent.

On May 4 I was given instructions to visit the Pribilof Islands, for the purpose of studying the seal life found thereon, with a view to procuring full and accurate information, not only as to its present general condition, but also more specifically as to any increase or diminution of the seal herd that makes its home upon the islands. I was further instructed, should I find that change had occurred, to inquire carefully into its relative amount and the causes leading thereto. My duties were in no way connected with the administration of the islands, but I was left free to make as exhaustive and comprehensive an examination of seal life on the islands as the time at my disposal would permit.

Instructions.

In accordance with my instructions I proceeded to San Francisco and on the 27th day of May sailed for Bering Sea on the United States revenue steamer *Rush*. The *Rush* arrived at St. George Island on June 9th and at St. Paul on the following day. I entered immediately upon the work assigned me and continued it interruptedly until September 22, when the *Rush* returned to San Francisco, arriving there on October 2.

Voyage on *Rush*.

Of the one hundred and thirty days devoted to field investigation eighty were given to the two islands and fifty spent at sea in making the voyage to and from San Francisco and in cruising in the vicinity of the Pribilof Islands. This cruising carried me as far north as the island of St. Matthew and of Nunivak, and gave me an opportunity to visit the villages of Akutan, Unalaska, Makushin, Hashega, and Chernofsky, on the Aleutian chain. Thus by field investigation, by cruising, as well as by seeking information from those qualified by their calling to give it, I sought to familiarize myself with the seal question in all its phases.

Sources of information.

In the prosecution of my investigations I deemed it desirable to photograph all the rookeries often from two positions; to make a general topographic survey of both islands on a scale of 1 mile to the inch and to prepare detailed charts of the rookeries upon the unusually large scale of 264 feet to the inch. In carrying out this work I examined the entire shore lines of St. Paul and St. George, and there is not an area of a mile square upon either that I have not traversed nor a square hundred feet upon a rookery that I have not repeatedly inspected. The close attention to topographic forms demanded in platting rookeries with so much minuteness and the care required in selecting the best positions to secure photographs inevitably drew me in close contact with seal life and greatly increased my opportunities to study it. There was

Photographed rookeries.

Survey of islands and charts of rookeries.

Opportunity for examination.

hardly a day in which I did not have a chance to examine the rookeries and observe rookery life in its varied forms. In all my work upon the islands I was constantly attended by native Aleuts, who assisted in transporting my instruments and other impedimenta. Several of these could speak fair English. Our intimate daily relations, which extended over nearly three months, were under conditions that offered neither incentive to secrecy nor to deception, and, while their general views on and theory of seal life are to be received with caution, they are keen observers of little details, and from them, their friends, and old Russian records on the islands I received many valuable hints of a natural-history and historical character.

This little group of islets, consisting, in the order of their magnitude, of St. Paul, St. George, Otter, and Walrus islands, were created in the shallow waters of Bering Sea by volcanic agency. Outpour upon outpour of basaltic lava gave to St. Paul low-lying sea margins which the waves and ice ground into boulders, pebbles, and sand, and distributed into long reaches of sandy shore at several points. The island lies to-day, except for these minor changes, just as it was created. Cliffs are infrequent and there are from 20 to 25 miles of alternating areas of sand, rocky ledges, and boulder-covered shores that could be made available, did an expanding herd demand it, for the uses of the seal. About 37 or 38 miles to the southeast lies the second largest of the group, St. George, which, though formed in the same manner as its neighbor, has nevertheless been so modified by orographic movement as to form a strong contrast to it topographically. Bold, towering cliffs are the rule, low-lying shores are rare, and it can boast of only about 6 or 8 miles of really satisfactory rookery space along the entire sea front. As a natural result St. Paul can and does support a far greater seal population than St. George.

The greatest length of either of these islands would be covered by 12 miles, while 6 would easily span them at their widest part. Otter and Walrus islands, the former about 6 miles to the southward and the latter about 7 miles to the eastward of St. Paul, are mere rocky remnants and now play no part as breeding grounds for the seal, and it is questionable if they ever did. The islands are far removed from other land areas, the nearest point on the Aleutian Archipelago lying 200 miles to the southward.

The meteorologic conditions in these latitudes are such that fogs and mists hang so continuously over the land and water as to make navigation very uncertain and dangerous. So all-enveloping are these vapors that it is often impossible to see the shore a quarter of a mile distant, and so fickle are the fogs and mists that I ascended Bogaslov, the central cone of the island of St. Paul, five times before I could catch a glimpse of the hills immediately surrounding it, and this, too, when each occasion was selected for its promise of clearness. The temperature of the warm season averages about 45° or 50°, and, though no trees grow upon the islands, the excessive humidity is so favorable for grasses, flowers, and other herbage that they grow with a rapidity and flourish with a luxuriance difficult to realize and unknown in the north temperate zone.

Many explanations have been offered of the seals having selected these islands as their home. My observation does not enable me to state their reason for having done so, but the fact remains substantiated by my experience and that of all others of whom inquiries were made that these remote, rock-bound, fog-

Pribilof Islands.

St. Paul Island.

St. George Island.

Size of islands.

Otter and Walrus islands.

Meteorologic conditions.

Home of the fur-seal.

drenched islands are the chosen resort of the fur-bearing seal (*Callorhinus ursinus*). The more jagged and irregular the lava fragments that cover the shore, the more continuous the drenching they receive from the moisture-laden atmosphere, the better the seals seem to like it. Neither from personal observation, from inquiries of the natives on the islands and the villages of the Aleutian chain, nor from questioning seafaring men, who, by opportunity for observation and general intelligence, were competent to inform me, could I learn of any other land area ever having been selected by this herd of fur-seal for its residence and for the perpetuation of its species.

I learned that fur-seals of the species *Callorhinus ursinus* do breed and haul out at the Commander Islands and Robbin Reef, but the statements made to me were unanimous that they are a separate herd, the pelt of which is readily distinguishable from that of the Pribilof herd, and that the two herds do not intermingle.

As a result of the volcanic origin of the islands their shores are, with few exceptions, either made up of boulder-strewn lava ledges or covered by jagged fragments of basalt of all sizes, the sharp edges of which are only slightly worn by the seals' flippers or more completely rounded by the waves at the water's edge. There are a few true sand beaches; occasional level areas are found at the back of the rookeries, and in some places between the rock masses comparatively smooth interspaces occur, but even the level portions referred to must be reached by crossing a wide belt of boulders of all sizes that have been pushed landward by the waves and by the ice which annually surrounds the islands. It is upon such shores that the seal "rookeries" are located. Of the ruggedness of these shores or of the irregularity and confusion of the lava blocks that cover them it is difficult to form a picture, but it is in a measure indicated in the accompanying photographs.

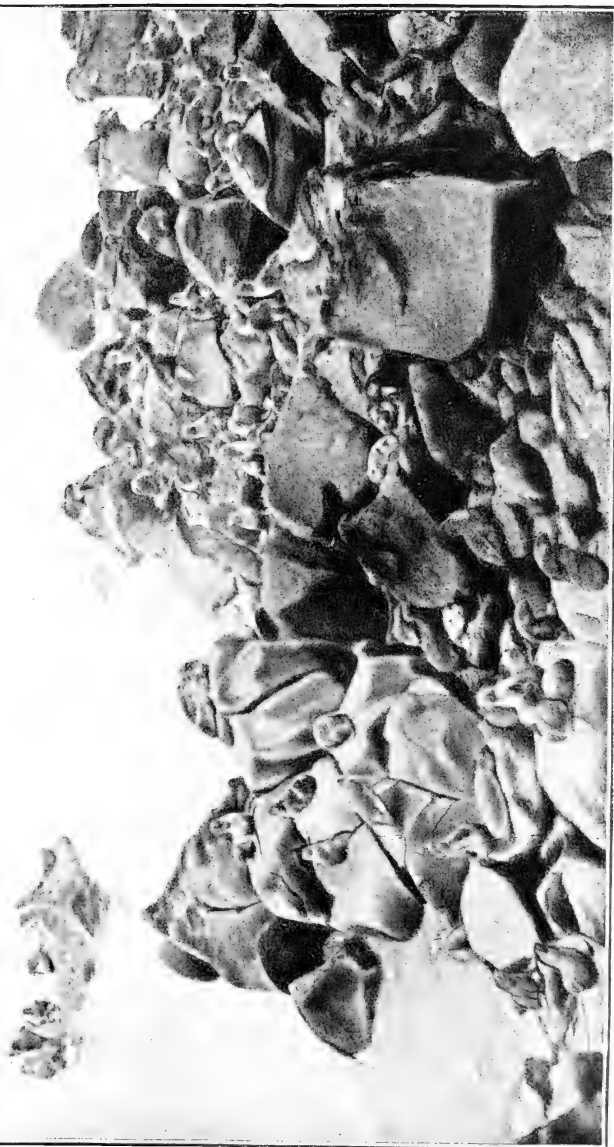
A rookery thus presents two distinct features structurally, while from the standpoint of the seal life thereon there are again the two well-recognized divisions of "breeding grounds" and "hauling grounds." The word "rookery" is a general one and includes the specific terms "breeding grounds" and "hauling grounds."

In general and by preference the more rocky areas are selected by the females as "breeding grounds," and here, of course, the breeding bulls are found; while the young, immature males or bachelor seals are relegated to the adjacent sandy shores or smoother spaces at the rear of the rookeries for their "hauling grounds."

Over these masses of rock the females scramble and stumble during the entire breeding season, and in maintaining the control of his household the bull dashes here and there, striking repeatedly against the sharp edges of the rocks with a force that to the onlooker would seem to threaten his life.

At no time during 1891 was there other than the greatest care exercised in protecting the breeding grounds from intrusion or molestation, precautions being taken that to a novice would seem excessive; nor could I find by the most diligent inquiry among the natives that there had been any deviation from these rules since the American occupancy of the islands, nor during that time had there been the killing of a female seal save by the rarest accident.

The "hauling grounds" of the young bachelors, which is usually somewhat removed from the "breeding grounds," is the only portion of a rookery upon which any intrusion is permitted.



PART OF REEF ROOKERY, ST. PAUL ISLAND.



PART OF LUKANNON ROOKERY, ST. PAUL ISLAND.
(Looking down on the Fur Seals.)

An inspection of the general map of St. Paul Island will show that there are now existing thereon practically ten rookeries, some of which, however, coalesce.

These rookeries are: Northeast Point, Little Polavina, Big Polavina, Lukannon, Ketavie, Reef, Garbotch, Lagoon, Tolstoi, Zapadnie.

Rookeries on St. Paul Island.

Upon the island of St. George it will be seen that there are five rookeries: Great East, Little East, North, Starry Arteel, Zapadnie.

Rookeries on St. George Island.

Shoreward the limit of a breeding rookery is sometimes defined by topographic conditions, as in the case of a bluff, but the seal life present in any one year upon the breeding ground is the true standard for the determination of boundaries. Upon the large scale charts A, B, C, D, E, F, G, H, I, J, K, will be seen the approximate areas occupied as "breeding grounds" in 1891, as observed by me, while the areas for certain previous years have been indicated by other observers.

Limits of a rookery.

The area of a "hauling ground" is an ever-changing quantity, but the locality at which bachelor seals hauled in 1891 and the approximate areas hauled over is also indicated on the charts.

The seals which make their home upon the Pribilof Islands are readily thrown into five general groups. (1) The breeding males or bulls. (2) The breeding females. (3) The immature males or bachelor seals. (4) Virgin females, and (5) The pups. Each has its own time of arrival, each its separate career on the islands, and each its season for the annual expedition into the Pacific Ocean.

Seals: five groups of.

The records kept upon the islands concerning the arrival of seals show that in the last days of April or first days of May the bulls begin to make their appearance. The first arrival on St. Paul in 1871 was on May 4, in 1890 on April 26. In the year 1876 the unusual fact appears in the record that a large number of bulls were in the waters about the island on February 15. About one month after the arrival of the bulls or in the first days of June the females begin to appear. In 1891 the maximum of daily arrivals was reached from June 24 to 28. Between the arrivals of bulls and females but rather closely following the bulls, come the bachelors; those immature young males which furnish the skins of commerce. The natives after the long winter are eager for fresh meat and it is usually possible to make drives of them for food not later than May 15, and sometimes from a week to ten days earlier.

Arrival of bulls.

Arrival of cows.

Arrival of bachelors.

The time of the arrival of the virgin cows is not easy to determine, but from my observation my present conclusion is that they arrive with the cows and for a while spend their time in the water or on the land adjacent to the rookery margin.

Arrival of virgin cows.

The birth of the pups is nearly synchronous with the arrival of the mothers.

Birth of pups.

Upon reaching the islands in early June I found that the bulls, in accordance with their habit had not only preëmpted their claims upon the breeding grounds but were well established in their possession. Being polygamous each bull seeks to gather around himself as many cows as possible to form what has appropriately been called his "harem." Here and there at wide intervals a few cows were already to be seen beside

Bulls.

"Harems."

be seen beside

them but at no time during the season were the rookeries free from the contention of the males that sought by coaxing or theft to procure females with which to increase their harems, and from the time I landed until the close of July no master of a harem abandoned his position to procure either food or water. These bulls during the breeding season were the embodiment of ferocity and at no time did I see one of them that would not instantly and fiercely resist any encroachment upon his territory whether it were made by his neighbor or by man. At no time would a bull fail to scramble across the rocks or course rapidly around his harem to coerce a rebellious or deserting consort. The creature that can exist without nourishment for eighty or ninety days while subject to the greatest physical exertion and strain must possess a vitality unsurpassed by any other member of the animal kingdom and must bequeath to its offspring even in their immaturity an unusual capacity for endurance.

Vitality.

From my observation as to the vitality of male seals I believe that it is difficult to determine with absolute accuracy the capacity of the bull for rookery service, as it must in large measure depend upon the personal equation of the individual, but I am nevertheless of the opinion that a conservative estimate would be that he could serve without difficulty at least one cow per day during his stay upon the rookery. Possibly the best results would not be achieved thereby, but this capacity taken in connection with the fact that young males persistently seek their opportunities upon the rookery margins and at the water's edge during the entire season leaves no doubt in my mind that no breeding female leaves the island unimpregnated. This view is further borne out by the fact that in the first days of rookery life I repeatedly counted groups of female seals by the side of each of which lay her pup.

The number of females which a bull is able to gather around him to form his harem, depending as it does in some measure upon topographic conditions, may be represented by the extremes of one and seventy-five. The average number of last year was about twenty or twenty-five. Unusually large harems were infrequent.

The abundance of male life for service upon the rookeries was evidenced by the number of young bulls which continually sought lodgment upon the breeding grounds.

It is highly improbable that the rookeries have ever sustained any injury from insufficient service on the part of the males, for any male that did not possess sufficient vitality for sustained potency would inevitably be deprived of his harem by either his neighbor or some lusty young aspirant, and this dispossession would be rendered the more certain by the disloyalty of his consorts.

Pelagic coition I believe to be impossible. The process upon land by reason of the formation of the genital organs is that of a mammal; is violent in character, and consumes from five to eight minutes. The relative sizes of the male and female are so disproportionate that coitus in the water would inevitably submerge the female and require that she remain under water longer than would be possible to such an amphibian. I have sat upon the cliffs for hours and watched seals beneath me at play in the clear water. It is true that many of their antics might be mistaken for copulation by a careless observer, and this may have given rise to the theory of pelagic coition. I have never seen a case of the many observed which upon the facts could properly be so construed.

Sufficient males for propagation.

Pelagic coition impossible.

When the season is over the bulls, now reduced in weight, find their way to the sea for recuperation.

My observation has been that the female seal, prompted by the maternal instinct, lands, chooses by preference the rocky shore, and is permitted a certain amount of freedom in going her way until just the place most to her liking is found, but when once parturition is completed she then, being of necessity tied to the spot, becomes subject to the control of the male, which control is exercised with rigor. Should the point of access to a rookery be through a break in the cliff that offers only a steep incline the chances are the bulls located near will be favored by large harems.

From the frequency with which I saw females select a flat stone over the edge of which the posterior portion of the body could hang previous to delivery, suggests an explanation of why the rocky margins are preferred to the sandy shores. It is not possible to determine how soon after the arrival of the mother the pup is born, for she may have been in the water adjacent to the island several days before finding it necessary to come ashore. But the accouchement follows quickly upon the landing. Very soon thereafter the females receive the males, and there is no doubt but that the master of the harem has knowledge of the female's condition as regards pregnancy, for while some of his consorts, the latest arrivals, are jealously guarded, others are permitted greater freedom.

For the first few days, and possibly for a week or even ten days, the female is able to nourish her young or offspring, but she is soon compelled to seek the sea for food, that her voracious young feeder may be properly nourished, and this seems to be permitted on the part of the male, even though under protestation. The whole physical economy of the seal seems to be arranged for alternate feasting and fasting, and it is probable that in the early days of its life the young seal might be amply nourished by such milk as its mother might be able to furnish without herself resorting to the sea for food.

The female gives birth to but a single pup. The labor is of short duration, and seems not to produce great pain. In the first weeks of its life the pup does not seem to recognize its mother, but the latter will recognize and select her offspring among hundreds.

The young on being born have all the appearance of pups of a Newfoundland dog with flippers. On emerging from their warm resting-place into the chill air they utter a plaintive bleat not unlike that of a young lamb. The mother fondles them with many demonstrations of affection, and they begin nursing soon after birth.

Were not the seals in their organs of reproduction, as well as in all the incidents of procreation, essentially land animals, the fact that the placenta remains attached to the pup by the umbilical cord for twenty-four hours or even more after birth, would show the impossibility of aquatic birth. I have seen pups dragging the caul over the ground on the third day after birth. Even could the pup stand the buffeting of the waves it would not survive such an anchor. No pup could be born in the water and live. Doubtless the habits of the sea-otter have become confused with those of the fur seal.

Cows.

Nourishment of young.

But one pup born at a time.

Pups.

Essentially land animals.

Pelagic birth impossible.

The pup during the first months of its life is not amphibious. It does not even use its flippers as the maturer seals. It moves in a gait more like going on "all fours," while the adult seal moves by drawing up the hind quarters as a whole and then throwing itself forward its own length.

Pup during first months not amphibious.

The young seals require the nourishing care of their mother for at least four months, and pups have been killed on the island late in November the stomachs of which were filled with milk.

Require mother's care for first four months.

By the middle of July the mothers were going constantly back and forth to sea; the pups, left more to themselves, collected in groups—"pods," as they are called—and by the last of July they worked their way down to the shore and began learning to swim.

Podding.

The pups are afraid of the water; they have to learn to swim by repeated effort, and even when able to maintain themselves in the quiet waters will rush in frantic and ludicrous haste away from an approaching wave. I have taken pups two or three weeks old and carried them out into still water, and they awkwardly but in terror rapidly floundered toward the shore, although they could have escaped me by going in the other direction. In three trials, paddling in all about 60 feet, the pups became so exhausted that they would have been drowned had I not rescued them. If the pups when collected in groups or pods near the shore were to be overtaken by even a moderate surf they would be drowned, and such accidents to them do occur on the island before they have entirely mastered the art of swimming.

Swimming.

The latter steps in the history of rookery life all facilitate, if indeed they do not play an important part in, the disorganization of the harem system. Just as soon as the pup has reached the age of forming pods and making little excursions hither and thither, the bull's authority diminishes, for his control over the mother is lost in the presence of the bleat of the hungry offspring.

Disorganization of rookeries.

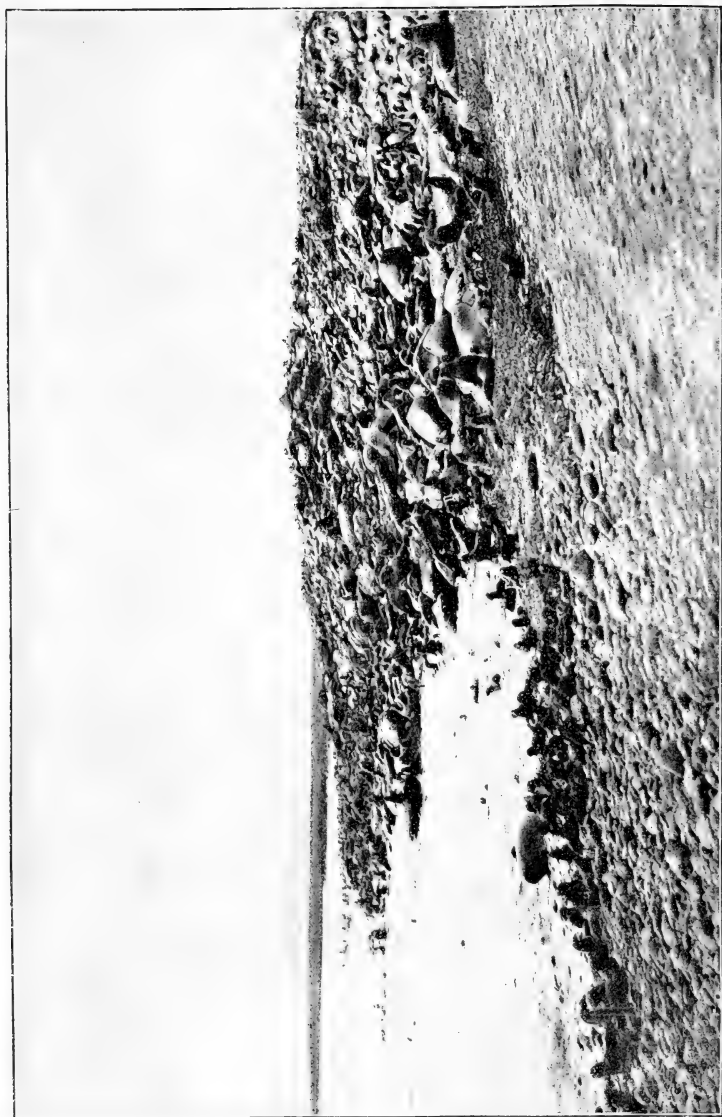
Up to the 20th of July the breeding grounds present a compact, orderly arrangement of harems, but under the combined influence of the completion of the serving of the females and the wandering of the pups, disintegration begun at that date rapidly progresses. It is at this time that the virgin cows of 2 years of age, or not older than 3, mingle more freely with the females and probably enter the maternal ranks, for the unsuccessful males and maturer bachelors, no longer deterred by the old males, also freely wander over the breeding grounds.

While the breeding grounds have been left undisturbed to their own career, the hauling grounds have alternately been the scene of drives for the purpose of killing. The immature bachelors form the bulk of the seals that haul out upon these grounds, and of them only the 3 and 4 year olds are taken for their skins.

Driving and killing.

The only seals killed for their pelts are those immature males that haul out upon the hauling grounds remote from the breeding grounds, and the handling of them causes no disturbance to the breeding females. The number of bachelors permitted to be taken in any one season is entirely within the control of the Treasury Department, which control has been exercised

Only immature males killed.



PART OF NORTHEAST POINT ROOKERY, ST. PAUL ISLAND.

during the past two years for the enormous reduction of the annual quota.

There are certain physical as well as historical sources of information upon the island from which the relation of the present to the past condition of the rookeries can be very clearly made out. Present appearance
of rookeries.

I. Not only upon, but immediately to the rear of, the area at present occupied by the breeding seals occur fragments of basalt whose angles have been rounded and polished Grass patches. by the flippers of seals. Among these latter rocks grass is found growing to an extent proportionate to their distances from the present breeding grounds, and further the soil shows no recent disturbance by the seals. This rounding of the bowlders of the abandoned areas was not due to the impingement of sand grass driven by the wind. No geologist would be willing to risk his reputation by asserting that this rounding came from any such agency. The distinction between the result of sand blast action and seals' flippers is very marked.

II. A careful examination among the roots of the grass will often show the former presence of seal by the peculiar appearance of the soil, due to the excrementa of the seal and the occurrence of a thin mat of seal hair. The attention of Dr. George M. Dawson was called to such a felt of hair upon the summit of Hutchinson Hill, and both he and Dr. C. Hart Merriam collected specimens of it from among the grass roots at that locality.

III. At the rear of the rookeries there is usually an area of mixed vegetation—an area the boundary of which is sharply defined, and between which and the present breeding grounds occurs a zone of grass of only a single variety. In the immediate vicinity of the present breeding grounds only scanty bunches are to be seen. These gradually coalesce as the line of mixed vegetation is approached. The explanation of this is that the seals were formerly so abundant as to destroy the normal mixed vegetation at the rear of the breeding grounds, and that the decrease of the seals has been followed by the encroachment of the uniform variety of grass.

IV. The statements made to me by competent observers who have lived upon the islands for years all agree that the shrinkage in the breeding area has been rapid during Decrease in breed-
ing area. the past five or six years.

V. After observing the habits of seals for a season, I unhesitatingly assert that to satisfactorily account for the disturbance to vegetable life over areas whose extent is visible even to the most careless and prejudiced of observers would require the presence of from two to three times the amount of seal life which is now to be found upon the islands.

That there has been enormous decrease in the seals there can be no question. Decrease.

In studying the causes of diminution of seal life there were found a variety of actual and possible sources of destruction Causes of decrease. which are effective in varying degrees. Fortunately the most important of these sources were directly under my observation and the following facts presented themselves for consideration.

I. The restrictions upon the molestation of the breeding grounds and upon the killing of females has been imperative both on the part of the Government and lessees since the American ownership of the islands, so that in the taking of seals no injury could possibly have occurred to the females and bulls found thereon.

II. The seal being polygamous in habit, each male being able to provide for a harem averaging twenty or thirty members, and the proportion of male to female born being equal, there must inevitably be left a reserve of young immature males the death of a certain proportion of which could not in any way affect the annual supply coming from the breeding grounds. These conditions existing, the Government has permitted the taking with three exceptions up to 1890 of a quota of about 100,000 of these young male seals annually. When the abundance of seal life, as evidenced by the areas formerly occupied by seals, is considered I do not believe that this could account for or play any appreciable part in the diminution of the herd.

III. The statistics which I have examined, as well as all the inquiries made, show that in the raids upon the rookeries themselves by marauders the loss of seal life has been too unimportant to play any part in the destruction of the breeding grounds. The inhospitable shores, the exposure of the islands to surf, the unfavorable climatic conditions, as well as the presence of the natives and white men, will always prevent raids upon the islands from ever being frequent or effective.

IV. For some years past the natives were permitted to kill in the fall a few thousand male pups for food. Such killing has been prohibited. It is not apparent how the killing of male pups could have decreased the number of females on the breeding grounds.

V. From my knowledge of the vitality of seals I do not believe any injury ever occurred to the reproductive powers of the male seals from redriving that would retard the increase of the herd, and that the driving of 1890 necessary to secure about 22,000 skins could not have caused nor played any important part in the decrease that was apparent on every hand last year.

VI. From my observations and my inquiries of the natives, under conditions which were calculated to elicit only truthful replies, I ascertained that there had been no change save for the better in the methods of driving or the handling of seals; that salt houses had been established at the more distant rookeries; that boats, horses, mules, and wagons had been employed to transport the skins; that by these improvements the length of the drives had been materially lessened, and that the time for taking the quota had been reduced from the Russian killing season of three or four months to about thirty days, thereby causing the minimum of disturbance even to the hauling grounds.

VII. I ascertained by questioning those who had had years of continuous experience with the seals that up to the year 1882 there was an annual expansion of the boundaries of the breeding grounds; that this was followed by a period of stagnation, which in turn was followed by a marked decadence from about 1885-'86 down to the present time.

VIII. In the latter part of July, 1891, my attention was called to a source of waste, the efficiency of which was most startlingly illustrated. In my conversations with the natives I had learned that dead pups had been seen upon the rookeries in the past few years in such numbers as to cause much concern. By the middle of July they pointed out to me here and there dead pups and others so weak and emaciated that their death was but a matter of a few days.

By the time the British commissioners arrived the dead pups were in sufficient abundance to attract their attention, and they are, I believe, under the impression that they first discovered them. I procured a number of these pups, and Dr. Akerly, at my request, made autopsies, not only at the village, but later on upon the rookeries themselves. The lungs of these dead pups floated in water. There was no organic disease of heart, liver, lungs, stomach, or alimentary canal. In the latter there was but little and often no fecal matter and the stomach was entirely empty. Pups in the last stage of emaciation were seen by me upon the rookeries, and their condition as well as that of the dead ones left no room to doubt that their death was caused by starvation. By the latter part of August deaths were rare, the mortality having practically ceased. An examination of the warning lists of the combined fleets of British and American cruisers will show that before the middle of August the last sealing schooner was sent out of Bering Sea. These vessels had entered the sea about July 1 and had done much effective work by July 15. The mortality among the pups and its cessation is synchronous with the sealing fleet's arrival and departure from Bering Sea.

Autopsies.

Death by starvation.

There are several of the rookeries upon which level areas are so disposed as to be seen by the eye at a glance. In September Dr. Akerly and I walked directly across the rookery of Tolstoi, St. Paul, and in addition to the dead pups in sight they lay in groups of from three to a dozen among the obscuring rocks on the hillside. From a careful examination of every rookery upon the two islands made by me in August and September, I place the minimum estimate of the dead pups to be 15,000, and that some number between that and 30,000 would represent more nearly a true statement of the facts.

Rookery at Tolstoi.

Number of dead pups.

Upon examining the Bering Sea catch for 1891, as based upon the records of the Victoria custom-house, I ascertained that nearly 30,000 seals had been taken by the British fleet alone in Bering Sea during the summer of 1891. When there is added to this the catch of the American vessels, the dead pups upon the rookeries, and allowances made for those that are killed and not recovered we have a catch which will not only nearly reach in numbers the quota of male seals allowed to be taken upon the islands in years gone by, but we have a catch in the securing of which destruction has fallen most heavily upon the producing females. This is borne out by a further fact. The young bachelor seals can lie idly on the hauling grounds and through the peculiarities of their physical economy sustain life with a small supply of food, but the cows must range the ocean in search of nourishment that they may meet the demands made upon them by their young. That seals go a great distance from the islands I know from personal observation, for we saw them 120 miles to the northward of the island on the way to Nunivak. That the females outnumber the males ten to one is well known, otherwise the hauling grounds would present such an array of killable seal that there would be no necessity for the Government to suspend the annual quota. It inevitably follows that the females are the class most preyed upon in Bering Sea. No class of animals which bring forth but a single offspring annually can long sustain itself against the destruction of the producers.

Catch by vessels in 1891.

Destruction of life.

Most heavily on females.

Female feeding.

As a result of my investigations I believe that the destruction of fe-

males was carried to the point in about 1885 where the birth rate could not keep up the necessary supply of mothers, and that the equilibrium being once destroyed and the drain upon the producing class increasing from year to year from that date the present depleted condition of the rookeries has resulted directly therefrom.

Depletion of rookeries due to destruction of mother seals.

JOSEPH STANLEY BROWN.

Subscribed and sworn to before me, a notary public in and for the District of Columbia, this 9th day of May, 1892.

[L. S.]

SEVELLON A. BROWN.

Deposition of Joseph Stanley Brown, geologist in U. S. Geological Survey, and special agent of Treasury.

VERIFICATION OF ROOKERY CHARTS.

DISTRICT OF COLUMBIA,

City of Washington, ss:

Joseph Stanley Brown, being duly sworn, deposes and says: I am 36 years of age and a citizen of the United States; my residence is at Mentor, Ohio; my occupation a geologist, in which capacity I am employed in the U. S. Geological Survey. In April, 1891, I was ordered to report to the Secretary of the Treasury, which I did, and received from him a temporary appointment as special Treasury agent. I visited the Pribilof Islands and made a careful examination of the same and of the condition of seal life thereon. I arrived on the islands June 9, 1891, and remained there until September 10, 1891. I made a survey of said islands and also of the seal rookeries on both of said islands. The charts signed by me and marked A, B, C, D, E, F, G, H, I, J, and K were made by me during said survey of said rookeries and represent the grounds covered by the same. The gray color on said charts so signed by me, and the red color on the reprints of the same, represent the places occupied by breeding seals in 1891, which said spaces were covered by groups of said seals. The white spaces on said original charts, as explained by legend on reprints, represent the grounds over which seals have at various times hauled, as is plainly indicated by the condition of said areas.

Pribilof Islands and seal life thereon. Experience.

Describes charts made by him.

JOSEPH STANLEY BROWN.

Subscribed and sworn to before me, a notary public, in and for the District of Columbia, this 10th day of May, 1892.

[L. S.]

SEVELLON A. BROWN.

Deposition of Stephen N. Buynitsky, Treasury agent in charge of the Pribilof Islands.

HABITS AND ROOKERIES IN 1870-72.

DISTRICT OF COLUMBIA,

City of Washington, ss:

Stephen N. Buynitsky, being duly sworn, deposes and says: I am a Russian by birth and am 60 years of age. I graduated from the Imperial Lyceum at St. Petersburg, an institution for the nobility. Am now a resident of the city of Washington. I was detailed by the United States Treasury Department to take charge of St. George Island in Bering Sea during the sum-

Experience.

mer of 1870; I returned to the United States in the fall of that year. The following season I was appointed to take charge of both St. Paul and St. George islands. I arrived at the islands in July, 1871, and remained there till the latter part of April, 1872. During my stay on the islands I made careful examination into the habits and nature of the seal and also read and studied the records left by the Russian Government in relation to the Pribilof Islands. The full grown male seals commence to appear about Bulls. the islands during the latter part of April or first of May. They come from the southeast through the passes between the Aleutian Islands. The bulls, as these seals are called, do not immediately land, but swim about surveying the coast; finally, they come on shore at the breeding rookeries, invariably selecting a shore covered with boulders and avoiding sand beaches, for the reason, I believe, that when the pups are born on these rookeries they may not be swept away by the surf. I believe also that a bull comes back to the same rookery every season; this belief was formed from information I received from several of the natives of the islands, who told me that they had at one time cut the ears of some pups so that they could be readily distinguished; that when the pups were grown they had noticed each one on a particular rookery, and that in the years following the rookery had the same occupant.

The female seals begin to arrive the latter part of May, going directly to the breeding rookeries. The young male Cows. seals from 1 to 5 years of age, called "bachelors," come Bachelors. about the same time as the females, but do not go onto the breeding rookeries, evidently fearing the old bulls. These bachelors haul up by themselves on narrow places along the shore left between the breeding rookeries, and from these points proceed inland much farther than the breeding rookeries. The seals killed on the islands for their skins are these bachelors, those of from 2 to 4 Only bachelors years old being carefully selected. Under no circum- killed. stances is a female seal killed. In a "drive" the natives Driving. drive the seals from the hauling grounds a little way, separate the young killable males, and allow the remainder to return to the water or the hauling grounds. Then these young males so selected are driven to the killing grounds and there dispatched with clubs. During the entire time I was on the islands I never saw a single seal killed by overdriving.

At the time I was on the islands I do not think there were any fish at all within 3 miles of the islands, and that the seals to feed No fish within 3 had to go farther than that from land. This belief is miles of islands. founded on statements made me by natives on the islands, and also from the fact that fresh fish were seldom eaten upon the islands. Very soon after a female lands she gives birth to a pup. I think that she never gives birth to more than one, Pups born on is- and that she only suckles her own pup. During the lands. two sealing seasons I was on the islands I only saw a very few dead pups, and these had been killed by Dead pups. the larger seals crushing them. I have never seen a pup that was starved to death, or which had been abandoned by its mother. A pup is at least a month old before it learns to swim. Before that it not only can not swim, but is afraid of the water. If a pup should be born in the water it would unquestionably Pelagic birth im- be drowned; but I believe that it is an absolute possible. impossibility for successful birth to take place in the water, for the reason that the mother would die of exhaustion before or while

bringing forth her young. There were, while I was on the islands, stringent rules enforced on the islands as to the use of firearms, making noises, approaching the rookeries, etc. In fact every precaution was taken that the seals on the islands might not be frightened. Because of the manner of killing seals on the islands, the precautions taken to

kill only males of from 2 to 5 years, and the careful
Decrease, none by
killing on islands.

never affect the numbers of the seal herd or deplete the rookeries. In my judgment pelagic seal hunting should be absolutely prohibited both in Bering Sea and the North Pacific. In case there is not such prohibition the Pribilof seal herd will be either exterminated in a very short time or else the few which escape from the indiscriminate slaughter of pelagic hunters will be driven from the Pribilof Islands.

Prohibition of pelagic sealing necessary.

STEPHEN N. BUYNITSKY.

Subscribed and sworn to before me, this 28th day of March, 1892.

[L. S.]

SEVELLON A. BROWN,

Notary Public in and for the District of Columbia, U. S. A.

Deposition of William Healey Dall, biologist and paleontologist in U. S. Geological Survey.

PELAGIC SEALING AND PRIBILOF ROOKERIES.

DISTRICT OF COLUMBIA,
City of Washington, ss:

William Healey Dall, of Washington, aforesaid, being duly sworn, deposes and says: That in connection with my scientific studies at Cambridge, Mass., I devoted nearly three years to the study of biology, anatomy, and medicine; that since completing my studies with Prof. Louis Agassiz at Cambridge, in the year 1863, I have been engaged in scientific work, and am now a paleontologist in the U. S. Geological Survey. I first

Experience.

visited Alaska and Bering Sea in 1865, visited Bering Sea in the summer of 1865 as a member of the scientific corps of the Western Union Telegraph expedition. Visited the Aleutian Islands and went to St. Michael, passing near the Pribilof group. In the spring of 1866 again went to northern Alaska, in the same capacity, and remained there until the fall of 1868. In 1867 the aforesaid expedition was abandoned, but I remained in the country in order to continue my scientific investigations, wintering on the mainland. In the fall of 1868 I made my way back to San Francisco on the schooner *Francis Steele*, owned by the Pioneer American Fur Company, which had a station at St. George Island, where we stopped on our way south, and thus gave me a chance to observe seal life for several weeks. In 1871 I joined the U. S. Coast and Geodetic Survey for the purpose of carrying out a proposed survey of the Aleutian chain of islands. I was thus engaged from the summer of 1871 to the end of the season of 1874, and during the winter of 1871-72 wintered at Unalaska. During this period had opportunity to familiarize myself with aquatic seal life, and in 1874 made a reconnoissance survey of the Pribilof Islands, which afforded me an additional opportunity to observe seal life on the rookeries.

Visited Alaska and Bering Sea in 1865, 1866.

Visited St. George Island in 1868.

In Aleutian Islands from 1871 to 1874.

Surveyed Pribilof Islands in 1874.

In 1880 I again visited all my former stations about and in Bering Sea for the purpose of obtaining magnetic observations. This was my last opportunity to examine the rookeries.

Visited Alaska and Bering Sea in 1880.

As a result of the above experience I would further state the following facts: During my visit to St. George Island in 1868, before referred to, this vast territory of Alaska had just fallen into the possession of the United States, and the Government had not yet fairly established more than the beginning of an organization for its management, as a whole, without mentioning such details as the Pribilof Islands. In consequence of this state of affairs, private enterprise in the form of companies dealing in furs had established numerous sealing stations on the islands during 1868. During my stay, except on a single occasion, the driving from the hauling grounds, the killing and skinning was done by the natives in the same manner as when under Russian rule, each competing party paying them so much per skin for their labor in taking them. Despite the very bitter and more or less unscrupulous competition among the various parties, all recognized the importance of preserving the industry and protecting the breeding grounds from molestation, and for the most part were guided by this conviction.

Slaughter of 1862

In 1880 I found the rookeries full, and in my opinion there were as many seals on the islands as at any time during my experience. I have never known of a pup being born or of hauling grounds existing anywhere along the Alaskan coast or in the islands adjacent thereto, except the Pribilof Islands. I have heard stories and traditions to that effect, but I have never known of their being substantiated.

Pups born, and hauling grounds only, on Pribilof Islands.

From my knowledge of natural history and from my observations of seal life I am of the opinion that it would be impossible for the young seals to be brought forth and kept alive in the water.

When it is the habit of an animal to give birth to its young upon the land it is contrary to biologic teaching and common sense to suppose they could successfully bring them forth in the water. It does not seem to me at all likely that a mother would suckle any pup other than her own, for I have repeatedly seen a female select one pup from a large group and pay no attention to the solicitations of others. Pups require the nourishment from their mothers for at least three to four months after their birth, and would perish if deprived of the same. There were not in 1880 sufficient dead pups scattered over the rookeries to attract attention or to form a feature on the rookery. A pup when first born can not sustain itself in the water and would unquestionably perish.

Pelagic birth impossible.

Dead pups.

The Pribilof Islands are the chosen home of the fur-seal (*Callorhinus ursinus*). Upon these islands they are born; there they first learn to swim and more than half of their life is spent upon them and in the waters adjacent thereto. Here they give birth to their young, breed, nurse their pups, and go to and come from their feeding grounds, which may be miles distant from the islands. I have seen seals in the waters of Bering Sea distant 100 miles or more from the islands at various times between the first of July and October. These seals were doubtless in search of food, which consists, according to my observation, of fish, squid, crustaceans, and even mollusks.

Pribilof Islands, the home of the fur-seal.

Feeding females.

Upon the approach of winter the seals leave their home, influenced

doubtless by the severity of the climate and decrease in the food supply.

Migration. They go southward, making their way through the passes of the Aleutian chain. In latitude 50° or thereabouts, extending across the Pacific east and west, is a warm current of about 70 or 80 miles in breadth; in this warm water are found fish and crustaceans. This current sets eastward and is somewhat quickened at the approach of spring in harmony with the monsoons of its place of origin. In the spring and fall I have seen seals in these warmer waters, but in August, when I once crossed the current, they were absent. Undoubtedly the seals find there agreeable temperature and sufficient food supply, and, following the eastward set of the current and the migrations of the fish, find their way to the western coast of the United States and, thence turn northward being influenced by the bountiful food supply along the northwest coast, and finally by that route return to their home upon the Pribilof Islands.

I have had ample opportunity to form an opinion in regard to the effect upon the herd of the killing of female seals. The female brings forth a single offspring annually, and hence the repair of the loss by death is not rapid. It is evident that the injury to the herd from the killing of a single female, that is, the producer, is far greater than from the death of a male, as the seal is polygamous in habit. The danger to the herd therefore is just in proportion to the destruction of female life. Killing in the open

Effect of killing females.
Indiscriminate killing.

waters is peculiarly destructive to this animal. No discrimination of sex in the water is possible, the securing of the prey when killed is under the best of circumstances uncertain, and as the period of gestation is at least eleven months, and of nursing three or four months, the death of a female at any time means the destruction of two, herself and the fœtus, or when nursing of three, herself, the nursing pup, and the fœtus. All killing of females is a menace to the herd, and as soon as such killing reaches the point, as it inevitably must if permitted to continue, where the annual increase will not make good the yearly loss, then the destruction of the herd will be equally rapid and certain, regarded from a commercial standpoint, though a few individuals might survive.

Upon the amount of protection depends the safety of the seal herd in the future. If protected only upon the Pribilof Islands extermination will be rapid; if they are protected upon the islands and in the waters of Bering Sea also the decrease will be slower, but ultimate extinction

Prohibition necessary.

will probably follow. To preserve them completely it is necessary that they should be protected in all waters, which they frequent at all times. Killing upon land can be regulated and interference with the females rigidly prohibited, but all killing at sea is indiscriminate and uncontrollable, and hence fatal in its consequences if carried on to any serious extent. Regarded as a factor in the world's commerce, extinction means, and is here used to mean, a diminution so great that the catch would not pay for hunting, without reference to the fact that a few scattered individuals may long survive the general mass.

WM. H. DALL.

Subscribed and sworn to before me this 9th day of April, A. D. 1892.

[L. S.]

JOHN J. MALONE,
Notary Public, D. C.

Deposition of C. L. Fowler, Assistant Agent of the lessees on the Pribilof Islands.

HABITS PELAGIC SEALING

ALASKA, U. S. A.,

St. Paul Island, Pribilof Group, ss:

C. L. Fowler, being duly sworn, deposes and says: I am 46 years of age, and was born at Stoneham, Mass. I have been a resident of the Pribilof Islands most of the time since 1879. My occupation is that of assistant agent of the lessees of the islands. I have had eight years' experience on the sealing fields of St. Paul and St. George islands, and I have a practical knowledge of the habits of the fur-seal while on the islands, and of the methods used in taking and preparing the skins for shipment. The bull seals arrive on the islands from the latter part of April to June 15, and most all of them leave in August and September, and I have seen a few as late as October. The cows come to the islands between June 1 and July 20, and commence leaving in October, and but few are found on the islands as late as December, unless it should be a mild winter. The young male seals from 2 to 5 years old come in May or June, and haul out by themselves; the older ones usually come first, and they remain on or about the islands until the inclemency of the weather compels them to leave, which is usually late in the fall or early winter. Occasionally some remain till late in January. The pups are born soon after the cows arrive, and remain until October and November, and when they return, the following season, do not stay on land much of the time.

The killing season for skins takes place in June and July, and none but males are killed, and it is seldom that the cows are ever in the drives at this time of the year. Should a cow happen to get into one of the drives she is carefully separated from the rest, and permitted to go to the water. Later in the season, when food drives are being made, and the harems are broken up, a small number of cows are in the drives, but none are killed unless by accident. The natives who make the drives are very particular on this point, and nothing offends them quicker than to have a female seal killed. They are very careful in handling the seals, and seem to fully appreciate the necessity of preserving the seals as well as the laws relating to that subject. I never saw any impotent bulls on the rookeries, and do not believe there ever was any, unless it was the result of age; nor do I believe that young male seals were ever rendered impotent by driving. There has always been a plenty of bulls on the rookeries for breeding purposes ever since I have been on the islands. Seals have decreased in numbers very rapidly in the last few years, and to anyone who saw the breeding rookeries, as I did, in 1880, the change is most wonderful. The flesh of the fur seal is used for food by the natives and white men on the islands, and is relished by them. I have never known of any sickness or epidemic among the seals, and I am of the opinion that the thousands of dead pups on the rook-

Experience.

Arrival of bulls.

Migration of bulls.

Arrival of cows.

Migration of cows.

Arrival of young males.

Migration of young males.

Birth of pups.

Killing season.

Only males killed.

No females killed.

No impotent bulls.

No injury from driving.

No lack of bulls.

Decrease.

Seals as food.

No sickness among seals.

eries last year died of starvation on account of their mothers being shot and killed while feeding at the fishing banks in the sea.

Pups dying of starvation.

I was present last year and saw some of the dead pups examined. Their stomachs were empty, and they presented all the appearances of starvation. I also noticed on the rookeries a great many emaciated pups, which, on a later visit, would be dead. It has always been the practice prior to 1891 for the natives to kill three to four thousand pups in November for food, and we always find their stomachs filled with milk. I have also observed that the male seals killed soon after they

Bachelors do not feed.

come to the islands are fat and their stomachs filled with food, while those killed in the latter part of the season are poor and lean and without food in their stomachs. It was on the breeding rookeries and among the cows that

Decrease of three-fourths in four years.

I first began to notice the decrease in seal life, and I do not think there was more than one-fourth as many cows on the breeding rookeries in 1891 that there was in 1887. And I know of no other cause for the decrease than that of the

Pelagic sealing the cause.

killing of the cows at sea by the pelagic hunters, which I believe must be prohibited if the Alaskan fur-seal is to be saved from total destruction.

C. L. FOWLER.

Subscribed and sworn to before me, an officer empowered to administer oaths under section 1976, Revised Statutes of the United States, this 8th day of June, 1892, at St. Paul Island, Alaska.

WM. H. WILLIAMS,

Treasury Agent in charge of Seal Islands.

Deposition of J. M. Hays, master mariner in employ of lessees of Pribilof Islands.

ROOKERIES AND PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Capt. J. M. Hays, being duly sworn, deposes and says: I reside in San Francisco, and am by occupation master of a vessel. Have been in the employ of the Alaska Commercial Company since 1881, and in the discharge of my

Experience.

duties have visited annually, with one exception, the different trading posts on the islands of the Aleutian Archipelago, and on the Alaskan coast in the Bering Sea as far north as St. Michaels, and prior to 1890 I went annually to the seal islands in Bering Sea, and frequently visited the seal rookeries on the same. I have noticed a

Decrease.

decrease in number of seals from year to year in the waters of the Bering Sea since about 1886, and for the last three years the decrease has been very rapid. Up to about 1884 the Bering Sea around the Pribilof Islands, and between said islands and the passes, was swarming with seals during the breeding season, but for the last few years the decrease in numbers has been so marked that I could not fail to notice it. I never have known or heard of fur seals hauling

up on land anywhere on the North Pacific or Alaskan coast, or islands thereof, except on the seal islands. I have often conversed with masters, seamen, and hunters engaged in hunting the fur seals, and their statements to me have always been that the capture of a male seal was a rarity; that nearly all of their catch were cow seals heavy with young, or those who had given birth to their young on the islands, and gone out to the fishing bank to feed, and that they lose a large proportion of those killed and wounded. I am decidedly of the opinion that the decrease in numbers of seals in the North Pacific and Bering Sea is owing to pelagic hunting, and that unless discontinued they will soon become so nearly extinct as to be worthless for commercial purposes.

I am not now, nor never have been, in the employ of the present lessees of the seal islands.

Haul up only on Pribilof Islands.

Pelagic catch mostly pregnant or milking cows.

Waste of life.

Cause of decrease.

J. M. HAYS.

Subscribed and sworn to before me this 31st day of March, 1892.

[L. S.]

CLEMENT BENNETT,
Notary Public.

Deposition of M. A. Healey, captain, U. S. Revenue Marine.

PRIBILOF ISLANDS AND PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Capt. M. A. Healey, having been duly sworn, deposes and says: I am a citizen of the United States. I am now and have been for the last twenty-five years an officer in the United States Revenue Marine Service, and have been on duty nearly all the time in the waters of the North Pacific, Bering and Arctic Seas. For the past six years I have been in command of the United States revenue steamer *Bear*, prior to which time I had command of the United States revenue steamer *Corwin* for six years; both of which vessels were employed almost exclusively in navigating the waters of Bering Sea, guarding the seal islands, and protecting the seals found in those waters from destruction by poaching vessels engaged in what is known as pelagic sealing. My first voyage was made to the seal islands in 1869, and I have cruised annually for the last twelve years in the Alaskan waters about the Pribilof Islands up to the present time. My official position and the character of my employment, as well as natural inclination, has given me an opportunity for familiarizing myself with the character of the fur-seal industry and the habits of the seals, and has also brought me in contact with many people engaged in the hunting of the fur-seals, and of the general methods employed in catching them. During my visits to the islands of St. Paul and St. George for the last twenty years I have carefully noticed that those islands were visited by great herds of fur-seals during the breeding season, and that although 100,000 male seals were taken annually at the islands by the lessees no perceptible diminution in their numbers was noticeable until within the past few years when the killing of seals in the open sea on the part of fishing vessels became prevalent; since which time

Experience.

First voyage to Pribilof Islands in 1869.

Experience.

No diminution of seals on islands until within past few years.

there has been a very perceptible diminution in the number of seals seen in the water of the Bering Sea and hauling grounds on the islands.

Cause. This decrease has become alarmingly sudden in the last three or four years, due I believe to the ruthless and indiscriminate methods of destruction employed by vessels in taking female seals in the open sea.

My experience has been that the vessels employed in hunting seals shoot indiscriminately, pups, male and female seals, regardless of age or sex, and even should sealers wish to discriminate in the killing it would not be possible for

Indiscriminate slaughter.

Sex indistinguishable in water.

a seal while in

Pay of hunters.

or condition.

Method of hunting.

While hunting they use small row boats, with two or three men in each boat armed with shotgun and rifle, chiefly the former, and it would be simply impossible for the master or owners, even should they desire it, to supervise ten or a dozen hunters as to the killing of any particular sex or kind.

Formerly the seals were gentle and the approach of a vessel did not even alarm them, but when firearms came into use it so frightened

Waste of life.

them that they had to be shot at long range, entailing a loss of not less than three out of every four or five killed. The ruthless practice of killing seals by shooting them in the sea is not only extravagant in the loss of skins, but is also a wanton and useless destruction of a valuable and useful animal, and must necessarily soon lead to its extermination if not discontinued.

It will be readily seen that the demoralization produced by a sealing fleet of fifty to a hundred vessels with from 1,000 to 2,000 men scattered over the sea, hunting and shooting indiscriminately, would soon put an end to all seal life in those waters.

My own observation and the information obtained from seal hunters convince me that fully 90 per cent of the seals found swimming in the

Slaughter of feeding females.

that the fur-seal

Prohibition necessary.

cific Ocean.

This conclusion is based upon the well-known fact that the mother seals are slaughtered by the thousands in the North Pacific while on their way to the islands to give birth to their young, and extinction must necessarily come to any species of animal where the female is continually hunted and killed during the period required for gestation and rearing of her young; as now practiced there is no respite to the female seal from the relentless pursuit of

Relentless pursuit of females.

the seal hunters, for the schooners close their season with the departure of the seals from the northern sea, and then return home, refit immediately and start out upon a new voyage in February or March, commencing upon the coast of California, Oregon, and Washington, following the seals northward as the season advances into the Bering Sea.

I have made diligent inquiry into the habits of the seals and have yet to learn that they haul up on land on the American coast or islands except the Pribilof Islands, at which place alone they bear their young, and I have no reason to believe that the pups are born in the water or that they can be saved in the water if accidentally born there.

Haul up only on Pribilof Islands.

Pelagic birth impossible.

M. A. HEALY.

Subscribed and sworn to before me this 7th day of April, A. D. 1892.
[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Max Heilbronner, Secretary of the Alaska Commercial Company.

RAIDS.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Max Heilbronner having been duly sworn, deposes and says: I am secretary of the Alaska Commercial Company, and as such have in my custody all record books of the Company; and among them the daily records or "log book" kept by the agents of the Company on St. George Island from 1873 to 1889, inclusive, and on St. Paul Island from 1876 to 1889, inclusive. In these books every occurrence was carefully noted from day to day by the agent in charge at the time. They have been examined under my supervision and show only the following raids on St. George Island during the time covered by them, to wit:

Management.

October 23, 1891 [1881].—The carcasses of fifteen dead pup seals and a cargo hook were found on a rookery. It was supposed that the crew of a schooner seen about the island a few days previous landed in the night.

Raids.

October 10, 1884.—Fifteen seal carcasses were found on Zapadni rookery. A guard was stationed, and the following night the crew of a schooner made an unsuccessful attempt to land. The boats were fired on by the guard and retreated.

July 20, 1885.—A party landed under the cliffs in a secluded place and killed about five hundred adult female seals and took the skins away with them. They killed about five hundred pups at the same time, leaving them unskinned.

July 22, 1885.—A party landed at Starrie Arteel rookery and killed and skinned one hundred and twenty seals, the skins of which they left in their flight, when pursued by the guard. They killed also about two hundred pups, which were left unskinned.

November 17, 1888.—A crew landed and killed some seals at Zapadni; how many is not known, but at this season of the year the number must have been small, because the seals have nearly all migrated.

September 30, 1889.—Eighteen dead seals and four clubs were found on a beach near a rookery. It is not known whether any others were killed.

An examination of the St. Paul record does not show any destructive raids upon the island. It is a fact, however, that in July, 1875, prior to the beginning of the record, the crew of the schooner *San Diego* landed on Otter Island, a small islet 6 miles from St. Paul, and killed and skinned 1,660 seals. She was captured before leaving the island, and both the skins and vessel were condemned to forfeiture by the United States court.

The reports of the superintendent for the lessees show that it was the custom of the Company's agents on the islands to frequently patrol the rookeries whenever the weather was such that a landing could be effected on them, and to keep watchmen at points distant from the villages, whose special duty it was to report every unusual or suspicious occurrence. For this purpose the northeast point of St. Paul Island was connected with the village by telephone in 1880, a distance of 12 miles, and the natives instructed in the use of the instrument. If any raids upon the islands, other than those herein mentioned, had occurred, I am sure they would have been detected and reported to this office. No such reports are on file.

MAX HEILBRONNER.

Subscribed and sworn to before me this 6th day of May, A. D. 1892.
[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of H. H. McIntyre, superintendent of Alaska seal fisheries.

STATE OF CALIFORNIA,

City and County of San Francisco, ss :

H. H. McIntyre, having been duly sworn, deposes and says: I was superintendent of the seal fisheries of Alaska from 1871 to 1889, inclusive. The records above referred to were kept under my direction by my assistants on the respective islands. I was in frequent correspondence with these assistants when not personally present and am sure that anything worthy of notice would have been promptly reported to me. I believe that those records contain a true account of all destructive raids upon the islands. If there had been any others I should have heard of them. Every unusual occurrence at any point about the islands was noted by the keen-eyed natives and at once reported to the Company's office, the matter was investigated, and a record of it entered in the daily journal. I am confident that the only marauding expedition that ever succeeded in killing more than a few dozen seals each were those of 1875, upon Otter Island, and of 1885 upon St. George Island, the details of which are set forth by Mr. Heilbronner in the foregoing affidavit. If there were others of which no record appears, the number of seals killed was comparatively very small and had no appreciable effect upon seal life.

Indorses records.

H. H. MCINTYRE.

Subscribed and sworn to before me this 6th day of May, A. D. 1892.
[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Capt. John A. Henriques, U. S. Revenue Marine.

ROOKERIES ON PRIBILOF ISLANDS.

DISTRICT OF COLUMBIA,

City of Washington, ss:

John A. Henriques, of New London, Conn., being duly sworn, deposes and says: I am 65 years of age, and a captain in the U. S. Revenue Marine, and have been in the service Lincoln, 1869. for twenty-nine years. In the fall of 1868 I was ordered to Sitka and in the spring of 1869 received instructions to proceed at once with the revenue steamer *Lincoln* to Bering Sea in order to protect the seal life from depredations, information having been received that seal-skins had been taken from the Pribilof Islands by unauthorized persons during the previous season. On the 4th of May, 1869, I left Sitka for Kodiak; on the 13th of May I left Kodiak pursuant to orders, with 14 men of the Second Artillery and the commissioned officer, Lieutenant Mast. Thence proceeded to the Pribilof islands, touching at Unalaska. On May 22nd, I landed a portion of the troops and Lieutenant Barnes, of the revenue service, with rations and stores, on St. Paul Island, one of the Pribilof group. The troops were here landed for the purpose of enforcing the United States statute providing for the protection of seal life. Lieutenant Barnes had charge of St. Paul Island, and no seals were allowed to be killed, except a sufficient number for the food of the natives, and these were to be killed only under the direction of said Lieutenant Barnes. States measures taken by him to protect seals on islands in 1869.

After landing I called the natives together, and through an interpreter informed them of the purport of the orders and directions of the Treasury Department in relation to the island, and the natives readily agreed to follow such instructions. I had heard from the natives that seals were very timid, and thereupon ordered all the dogs on the island to be killed, which order was executed within ten minutes after it was given. I further asked the natives to surrender all firearms in their possession until the close of the sealing season, so that the sound of the firing of the same might not disturb the seals; this also they immediately did. During the time I was on the island I particularly noticed the care that the natives took not to disturb the seal rookeries, even warning some of our party from the use of tobacco in any form in the neighborhood of such rookeries. On May 24th I landed Lieutenant Henderson, of the Revenue Marine, on St. George Island with the remainder of the troops, their stores and equipments. Lieutenant Henderson was vested with the same authority on St. George Island that Lieutenant Barnes had on St. Paul Island. Here I also had an interview with the natives as on St. Paul Island, and they, too, readily complied with the orders in relation to dogs and the use of firearms above stated. Every precaution that was possible was taken by the Government officers to protect the seal life on the islands, and also to prevent the breeding rookeries from being disturbed in anyway. While in Bering Sea during the summer of 1869, I never saw a vessel sealing about the islands or anywhere in the sea, nor did I hear any report of the presence of such sealing vessels in those waters. No sealing vessels in Bering Sea in 1869.

J. A. HENRIQUES,
Captain, U. S. R. M.

Subscribed and sworn to before me this 7th day of April, 1892.

[SEAL.]

GEO. Y. COFFIN,

Notary Public in and for the District of Columbia.

Deposition of William S. Hereford, physician on Pribilof Islands.

HABITS OF SEALS—ROOKERIES AND PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss :

William S. Hereford, having been duly sworn, deposes and says: I am 39 years of age, and am a physician. I hold the
 Experience. degree of B. S., Santa Clara College, S. J., year 1874, also a regular graduate of the medical department of the University of Pennsylvania, year 1877; am a regular practitioner of medicine and surgery.

I entered the service of the Alaska Commercial Company August, 1880, for the purpose of being one of the resident physicians on the seal islands, and was continuously in their employ until May, 1890, at which time I went into the employ of the North American Commercial Company in the same capacity until the latter part of August, 1891, having left by resignation. I was in the service of the Alaska Commercial Company almost ten years and with the North American Commercial Company about fifteen months, and had a total connection with the seal islands a little over ten years. Seal and seal life being the only and all absorbing topic of conversation, business, food, etc., equally with the natives as ourselves, one naturally becomes almost as familiar with the fur-seals and their habits, as a farmer would with those of the cattle and horses on his farm, or a hunter of the animals by whom he is surrounded in the woods, and by the killing of which he gains a livelihood, both as a means of sustenance and article of commerce.

In my capacity of physician and surgeon to the sealing companies, *i. e.*, the Alaska Commercial Company and the North American Commercial Company, I was stationed the first year, *i. e.*, 1880 and 1881, at St. George Island, and in 1881 and 1882 at Unalaska, at which time my duties required me to sail from Unalaska to Attu, Belkofskie, Atka, Unga, etc. I have been from Kadiak to Attu and have visited the way places between those points. I have also in the same capacity made three trips to St. Michaels, Norton Sound, one of which trips on account of the ice carried me over on to the Russian coast and as far north as the Bering Straits. I have also visited St. Matthews Island, though never having landed, passed by St. Lawrence Island, etc. After 1882 I was at St. Paul Island, with the exception of my vacations in San Francisco, Cal., until 1890 and 1891, when I was again placed on St. George Island. My knowledge is from personal observation and experience, as well as from conversation with the natives, having become more or less intimately acquainted with the language spoken by the natives of the islands.

The loss of life of pup seals on the rookeries up to about 1884 or 1885 was comparatively slight and was generally attributed to the death of the mother seal from natural causes or from their natural enemies in the water, or, as sometimes happened, sudden storms with heavy surfs rolling in from certain directions on to the breeding rookeries, but never at any time would a sufficient number of pups be killed to make it the subject of special comment, either among the natives or the employés of the company.

Coincident with the increase of hunting seals in the sea, there was an increase in the death rate of pup seals on the rookeries; also a perceptible diminution of female seals. As hunting increased, it became self-evident, even to the

Loss of pups up to 1884 or 1885 comparatively slight.

Increase of death rate of pups.

most casual observer, that the rookeries were becoming devastated. It is positively a fact that there are not near as many seals occupying the rookeries now, at the present time, as there were when I first saw the islands. The vacant spaces on the breeding and hauling grounds have increased in size from year to year since 1884, and have been very noticeable for the last four or five years.

When I first went to the seal islands the seals were actually increasing in numbers, instead of diminishing. Two facts presented themselves to me later on.

First. Seals were arriving each year in diminished numbers.

Second. At the same time that the female seals were decreasing in numbers, the number of dead pups on the rookeries was increasing.

There has been no change in the manner of conducting the business ashore, but there has been added the open sea hunting industry in the waters surrounding the rookeries, and which industry, as is well known, has rapidly increased since 1884, until now it has assumed grand proportions. It is a well-known fact that the female seals leave the islands and go great distances for food, and it is clearly proven that many of them do not return, as the number of pups starved to death on the rookeries demonstrates.

The old mother seal will not nurse any but its own offspring, and can single it out of a band of thousands even after an absence of days from the islands. The difference between a well-nourished pup, and one starving to death is also easily recognized; one being plump and lively, growing extremely rapidly, the other slowly dwindling away, its body becoming lean, long and lanky, the head being the largest and most conspicuous part. The poor little thing finally drops from sheer exhaustion in its tracks, being only a matter of time before it succumbs to starvation. In reference to the time a newly-born seal could live without its mother's care, I can say that I have known one particular pup seal to have positively existed for a period of at least two weeks or more from the moment of birth with not over a pint or so of cow's milk, at the most, which had to be forced down its throat. Perhaps this will be best understood by explaining the circumstances.

Little "Jimmie," as this particular pup was called, was the child of adverse circumstances as his mother happened accidentally to be caught in a large drive and could not be separated from the herd until the killing ground was reached. Shortly after being parted out and allowed to go free, on her way to the water, she hurriedly gave birth to this pup and continued on her journey. The pup was watched carefully for a few days, and when it was thought to have been deserted a kind-hearted employé of the company, Mr. Allis, brought it into the village with a double view of trying to save its life as well as to make a pet of it. For the first few days, as nobody could manage to make him eat and as he would generally get the best of some friendly finger in these attempts at feeding, he was let severely alone. Then followed various contrivances, mechanical and otherwise, for holding his head so as to feed him with a spoon or a nursing bottle, but all to no purpose, for he would get most of the milk everywhere but where it was intended to go. This went on for all of two weeks or more. I then equipped myself with a large syringe and a flexible tube, and about a pint or so of warm, fresh cow's milk. Little "Jimmie's" mouth was

Decrease seals on rookeries.

Increase of seals at first visit.

Management.

Females feeding.

Cow nurses only its own pup.

Vitality of pups.

kept open, the tube was passed down his throat into his stomach, the syringe filled with milk, in quantity as before stated, and which was unanimously agreed was not too much for him at one feeding, was slowly injected down the tube into his stomach. After the operation the tube was carefully withdrawn and "Jimmie" was left to his own devices. The pup, much to the gratification and amusement of all present, immediately began to show in the most unmistakable manner the greatest of seal delight, *i. e.*, to lie down in the various positions of seal comfort, on his back and side, and wave and fan himself with his flippers, scratch himself, bleat, etc. As these signs were unmistakable to all present who were familiar with the habits of seals, the operation was thought to be a success. Up to the last time the pup was seen, late that night, he was doing finely, but next morning he was found dead, and I attributed his sudden taking off either to the small boy or an accident during the night.

Another instance is that of a young pup seal born under almost similar circumstances some years previous, and deserted by his mother. It was placed near the water's edge to see if in a few days its mother would not return to it, or maybe it might take to the water naturally and swim across to an adjoining rookery a few yards distant, and possibly there be found by its mother and its life thus be saved. Day after day this pup was watched, but it would not go near the water and neither did its mother return.

After several days or so a new employé of that season only, and knowing nothing whatever of fur seal life and habits, coming along that way and finding the pup in the grass, thinking probably that he had gotten lost from the other side took him up and threw him into the water, with a view of giving him a chance of swimming back home. It was a mistaken kindness, however, for he was immediately drowned, as he was too young to swim, his head being too heavy for his body.

These cases demonstrate two points, *i. e.*, that a very young fur seal can live a considerable time without nourishment, several days or more; also that they can not swim, and any and all fur seals born in the water must necessarily perish.

I remember these two instances distinctly, as I was very much impressed by them at the time. Others might possibly be cited, but I think these will suffice. These two isolated instances show that a young fur seal can live without its mother's care for a week or so, and that the little fellows on the rookeries, who probably have been nursed to their heart's content before the mother seals took their departure, stand at least an equal, if not superior, chance of life, until their mothers return from the feeding grounds, even giving them wide margins for delays.

It is asserted that the fur seals give birth to their young also on kelp patches, and lie asleep on their backs, with their offspring in their embrace, clasped to their breasts. This is descriptive of the sea otter, but is not true of the fur seal.

It is known and currently believed among the natives of the seal islands, and also among the employés of the sealing company, past and present, that the mother seal will go great distances and be gone for long periods of time in quest of food. Such is also my observation and belief. In fact it is a common thing to see squads or herds going out and coming in at various times during the day. Food around the immediate vicinity of the seal islands is at the best of times scarce, and as the rookeries increase in the number of their occupants it becomes necessary for them each day to go

Pup's dread of the water.

Pelagic birth impossible.

Pups not born on kelp.

Females feeding.

farther and farther. Distance, however, is no particular object to them, as they are very speedy travelers. I do not know whether the mother seal has the power of voluntarily restraining and postponing the involuntary act of labor or not, but it would almost seem as if she had, as on many occasions she will have but just dragged herself ashore when she will give birth to her young. This may be a coincidence only, but when not disturbed they usually come ashore with plenty of time to make themselves comfortable.

I have dissected the brains, eyes, and hearts, and have examined the lungs, liver, and internal viscera generally, of such seal as are to be found on the killing grounds. Have also examined some of the stomachs of the pups on the rookeries in the fall.

The fur-seal has unusually thin bones covering the brain. The brain is well shaped, the same almost as a human brain, quite large, and if one could judge from external appearances the animal

Anatomy of the seal.

possessing such a brain should be unusually intelligent. The eye during life is large, dark, sympathetic, and intelligent-looking, but, alas for appearances! On land they may be occasionally suspicious, especially should their other senses be helped out by their olfactories, for they have the keenest scent, but in the water they display the greatest curiosity and confidence in passing objects. They will catch up and follow a boat,

Of a confiding nature in the water.

and in fact I have seen them play around the "killer-whale" totally oblivious of the fact that this "killer" is their bitter enemy. I have at the same time seen the sea lion, which is generally considered more stupid, though braver, rush into shore and land on the rocks under similar circumstances, apparently preparing to chance death from the natives to being snapped in two and made a meal of in two mouthfuls by the "killers."

I am of the impression that the fur-seal, notwithstanding its magnificent-looking eye, has rather a short range of vision; it may be more powerful under water than out.

Short range of vision.

Of the stomachs of the killable seals, I may say that there is no degree of regularity in what may be found in them; perhaps oftener nothing, many times a few worms, frequently a few small stones, sometimes a quantity of pea-soup-looking fluid, the result of the process of digestion, while some may contain the remains of fish bones, kelp, etc. Of the female fur-seal stomach I know nothing, as they are not allowed to be killed on the islands, but I think it would be safe to say remnants of a fish and kelp diet would frequently be found, as that

Food.

is their natural food, and they do considerable traveling backwards and forwards from the fishing banks while nursing their young after having received the attention of the bulls. The pups driven up for native use in the fall were always full to overflowing with milk, their stomachs containing nothing else. These pups are as round and plump as partridges, while those dead on the rookeries, unless killed by accidents of some kind, are never of the plump and well-nourished looking order, but are generally lean and thin, bearing all the external signs of neglect and starvation.

Of the lungs, liver, heart, and testicles of the male fur-seal, which I have observed, there is nothing peculiar about them. The penis is characteristic of the class to which the fur-seal belongs. The brain, heart, liver, and kidneys make very good eating, and taste about the same as those of other animals. The meat, however, which must be entirely freed from all its blubber or fat, though quite nutritious and palatable, is somewhat soft, of a dark color, and reminds one, according to how it is cooked, of wild duck, venison, etc., only it must never be eaten rare,

but always well done. On our table it generally went by the name of St. Paul or St. George mutton, respectively, and had its regular place in our bill of fare, being far more preferable to "salt horse" and canned stuffs.

The methods employed in handling the drives are the same identically as of twenty years ago. The same methods were observed when I first went to the islands, and were in vogue during the period that I referred to as an actual increase in seal life, and have been continued up to the present times. There is nothing different, except the enormous increase of vessels and hunters engaged in pelagic sealing in Bering Sea.

Up to 1883 and 1884 it was only an occasional venture—some vessel that came around and secured a few hundred skins and thought itself lucky and cleared out, but since that time not even the smallest craft is satisfied unless it secures its thousands of pelts, regardless of sex. The indiscriminate slaughter of seals in the water has so depleted their number, that the company is at present unable to get their quota of skins on the island as allowed per contract with the Government, and is restricted to such an insignificant number that it is not enough to supply food to the native population of the islands.

It is an indisputable fact that large portions of the breeding rookeries and hauling grounds are bare, where but a few years ago nothing but the happy, noisy, and snarling seal families could be seen.

The first arrival of bulls is about the same time as formerly, but after that they fill in very much slower, and the females for the last few years have been somewhat later in their arrival.

The driving rookeries also necessarily have suffered, as witness the difference in the catch, a drop from 100,000 to about 20,000 in 1890.

I made the conditions of seal life a careful study for years and I am firmly of the opinion their decrease in number on the Pribilof Islands is due wholly and entirely to hunting and killing them in the open sea.

WM. S. HEREFORD.

Subscribed and sworn to before me this 12th day of April, A. D. 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Edward Hughes, steward on vessels and in employ of the lessees.

PELAGIC SEALING.

ALASKA, U. S. A.,

St. Paul Island, Pribilof Group, ss:

Edward Hughes, being duly sworn, deposes and says: I am 52 years of age; and I was born in Wales. I am a citizen of the United States, where I have resided for thirty-five years, of which twenty-eight years have been spent in Alaska. For eighteen years I have been cook or steward on board vessels doing business in the North Pacific and in Bering Sea, along the entire coast of Alaska from Sitka to Norton Sound, and all along and

Experience.

around the Aleutian Islands as far west as Attu Island, and also along the coast of Siberia as far as Plover Bay. In all those years I have met and talked with hunters, trappers, traders, and miners whose business called them into Alaskan waters and I never knew or heard tell of any fur-seals hauling out on land to breed anywhere on the Alaskan coast or islands in the North Pacific or American waters of Bering Sea, excepting the Pribilof Islands. I have been employed on the seal islands since 1882, and I have resided upon them continuously for ten years, and have a personal knowledge of seal life as it exists on these islands and in the waters surrounding them, and there is less than one-third as many seals coming to the islands last year than there was in 1882. The decrease in the number of seals coming to the islands was first noticed and talked about in two or three years after I first came to live here; and since 1887 the decrease has been very rapid.

Haul up only on Pribilof Islands.

Decrease of two-thirds in ten years.

A careful inspection of the rookeries each returning season since 1887 showed that the cows were getting less and less, although it was a rare thing to find a cow seal that did not have a pup at her side. It was also during these years that dead emaciated pups were first noticed on the rookeries, and they increased in numbers until 1891, in which year, in August and September, the rookeries were covered with dead pups. I was present when Dr. Akerly, the resident physician, made an examination of some of them and it was found that their stomachs were empty, and that they exhibited all the conditions of starvation.

Fewer females.

Rookeries covered with dead pups.

I have been steward and cook at the Company house for the lessees since 1882, and during the time when seals are killed for skins or food I have daily prepared and cooked the meat in various ways for the use of the table at which all white people board who live on or come to the island, and such a thing as a diseased seal has never been known.

Experience.

Diseased seals unknown.

EDW'D HUGHES.

Subscribed and sworn to before me, an officer empowered to administer oaths under section 1976, Revised Statutes of the United States, this 8th day of June, 1892. At St. Paul Island, Alaska.

WM. H. WILLIAMS,

Treasury Agent in charge seal islands.

Deposition of Abial P. Loud, special assistant Treasury agent on Pribilof Islands.

MANAGEMENT AND PELAGIC SEALING.

DISTRICT OF COLUMBIA,

City of Washington, ss:

Abial P. Loud, being duly sworn, deposes and says: I am a resident of Hampden, Me., and am 55 years of age. On April 4, 1885, I was appointed special assistant Treasury agent for the seal islands, and immediately started for the islands, arriving at the island of St. Paul on May 28 or 30. Spent that season on St. Paul Island, and returned for the winter to the States, leaving the islands on the 18th of August. Went back again next spring, arriving there in the latter part of May, and remained until August,

Experience.

1887, on St. Paul Island. Spent the season of 1888 and 1889 on St. George Island, returning in the fall of 1889 to the States. In 1889 I spent some time in the fall on St. Paul Island. On whichever island I was located I always kept careful watch, and made frequent examination of the rookeries during this entire period. During

Decrease of breeding grounds from 1885 to 1889.

the time from 1885 to 1889 there was a very marked decrease in the size of the breeding grounds on St. Paul Island, and from 1887 to 1889 I also noticed a great decrease in the areas covered by the rookeries on St. George Island.

In his reports of 1886 and 1887 George R. Tingle, special Treasury agent in charge of the seal islands, reported having measured the rookeries on the islands, and that the seals had largely increased in number, giving the increase at about 2,000,000. From this report I dissented at the time, as I was unable to see any increase, but on the contrary a perceptible decrease, in the rookeries. I expressed my views to many on the islands, and all agreed that there had been no increase in seal life. I do not think that there was a single person on the island except Mr. Tingle

Questions Special Agent Tingle's reports of an increase.

Mr. Tingle's method of measuring.

who thought there had been an increase, or, in fact, that there had not been a decrease in seal life. The measurements of the rookeries on which Mr. Tingle relied were made with a common rope, by ignorant natives, while the seals were absent from the islands, the grounds covered by them being designated by Mr. Tingle from memory. Even if these measurements had been correct,

Impossibility of ascertaining number of seals.

which was impossible, I do not believe it is possible to calculate even approximately the number of seals upon the rookeries, because of the broken nature of the ground and the irregular outlines of the breeding grounds. While I

Driving and overdriving.

was on the islands I attended nearly every "drive" of the bachelor seals from the hauling grounds to the killing grounds, and these "drives" were conducted by the natives with great care, and no seals were killed by overdriving, plenty of time being always given them to rest and cool off. A few were smothered by the seals climbing over each other when wet, but the number was very inconsiderable, being a fraction of 1 per cent of those driven, and did not to any extent affect the seal life on the islands. The greatest care was always taken to avoid overdriving both by the Government officers and employés of the lessees.

During my experience (and I was on the killing ground at every killing that took place while I was on the islands) I never saw a male seal which had been injured by being redriven several times from the same hauling ground. I am convinced that while I was there there

Virility of seals not impaired by driving, etc.

was not a single case in which the virility of a male seal was destroyed or impaired in the slightest degree by driving, redriving, or overdriving, and I took particular notice of the condition of the males during each drive. The males old enough for service on the breeding grounds were always allowed to return to the hauling ground from a "drive," and I am satisfied a sufficient number of males was always reserved for future breeding purposes. A suggestion was made to the Secretary of the Treasury in the fall of 1885 that some old bulls should be killed, but

Decrease, cause of.

the Secretary declined to permit such animals to be destroyed. I am convinced that the decrease in the rookeries was caused entirely by open-sea sealing. As I was not present on the islands in the fall of 1885, I am unable to

Dead pups.

make a statement as to the number of dead pups on the rookeries in that year, but in 1886 I saw a large number of dead

pups lying about. These pups were very much emaciated, and evidently had been starved to death. I account for this by the killing of the mothers by open-sea sealers before the pups were weaned, and because a mother will not suckle any pup except her own.

In 1887 the number of dead pups was much larger than in 1886. In 1888 there was a less number than in 1887, or in 1889, owing, as I believe, to a decrease of seals killed in Bering Sea that year; but in 1889 the increase again showed itself. I believe the number of dead pups increased in about the same ratio as the number of seals taken in Bering Sea by pelagic sealers. While I was on the island

Raids.

there were not more than three or four raids on the rookeries to my knowledge, and I think that the destruction to seal life by raiding rookeries is a small part of 1 per cent as compared with the numbers taken by killing in the water. Another fact in connection with open-sea sealing is that the great majority of seals killed are females, and that a great part of the females are pregnant, or in milk. The milking females are most all killed while visiting the feeding grounds, which are distant 40 or 60 miles, or even farther, from the islands. The female necessarily feeds so she can supply nourishment for her young, while the males during the summer seldom leave the islands. This accounts for the large number of females killed in Bering Sea. In

Great majority killed at sea females, a great part of which are pregnant or nursing cows.

July, 1887, I captured the poaching schooner *Angel Dolly* while she was hovering about the islands. I examined the seal skins she had on board, and about 80 per cent were skins of females. In 1888 or 1889 I examined something like 5,000 skins at Unalaska which had been taken from schooners engaged in pelagic sealing in Bering Sea, and at least 80 to 85 per cent were skins of females.

Females feeding.

Capture of the "Angel Dolly," 1887.

Eighty per cent of skins on board females.

Percentage on board other poachers.

I have conversed with the captains of several marauding schooners, and others who were employed in pelagic sealing have informed me that they usually use rifles in shooting seals in the water. Some, however, use shotguns, but to no great extent. From these conversations I should judge they did not secure more than one-half of the seals killed; and this, I think, is a large estimate of the number secured. I am of the opinion that the Pribilof seal herd should be protected both in Bering Sea and the North Pacific Ocean. If an imaginary line were drawn about the islands, 30 or 40 miles distant therefrom, within which sealing would be prohibited, this would be little protection to seal life, for all the poachers whom I interviewed acknowledged that they could get more seals in the water near the fishing banks, 30, 40, or more miles from the islands, than in the immediate vicinity thereof, and the hunters on the schooners always complained if they got much nearer than 40 miles of the islands. I am certain that even if sealing were prohibited entirely upon the islands the seal herd would in a short time be exterminated by pelagic sealing, if permitted, because the females, that is, the producers, are the seals principally killed by open-sea sealing.

Weapons used in pelagic sealing.

Protection necessary.

A zone will afford but little protection.

ABIAL P. LOUD.

Subscribed and sworn to before me, a notary public in the District of Columbia, this 15th day of April, 1892.

[L. S.]

CHAS. L. HUGHES,
Notary Public.

Deposition of H. H. McIntyre, Treasury agent, and superintendent for the lessees of the Pribilof Islands.

HABITS.

DISTRICT OF COLUMBIA,

City of Washington, ss:

H. H. McIntyre, of Randolph, Orange County, Vt., on being duly sworn, deposes and says, concerning the fur seals of Alaska, and matters relative thereto, as follows: I am a native of Vermont, 48 years old, Commissioner from Vermont to the World's Columbian Exposition of 1893, etc. In the years 1868 and 1869 I was special United States Treasury agent, assigned to duty in Alaska, and from 1870 to 1889, inclusive, superintendent of the seal fisheries of Alaska for the lessees. I spent ten months as special Treasury agent from November, 1868, to August, 1869, in inquiry concerning the fur-seal fisheries then recently acquired from Russia, with a view to advising the Government of the United States what disposition should be made of them, and to this end visited all the principal points along the northwest coast of the American continent from Vancouver's Island to the most westerly island of the Aleutian Archipelago, the Pribilof group, and points along the Bering Sea coast.

As superintendent of the seal fisheries I visited the seal islands twice in the summer of 1870; remained constantly thereon from April, 1871, until September, 1872, and thereafter went to the islands every summer from 1873 until 1889, inclusive, excepting 1883, 1884, and 1885. I usually remained on the islands about four months, from May until August, in each season, supervising the annual seal catch, examining the conditions of seal life, studying the habits of the seals, and, in brief, doing such work as the interests of the lessees seemed to demand. I also went twice to London, first in 1872 and again in 1886, to attend the fur-seal trade sales with a view to becoming more thoroughly acquainted with the demands of the sealskin market. My duties as such special Treasury agent and superintendent demanded and received my attention to every detail of seal life and its relation to commerce. In the execution of these duties I was constantly aided by able, intelligent assistants and native seal hunters, whose daily observations and reports were from time to time communicated to me.

Based upon my own observation and experience, and corroborated by those of my assistants and hunters, I deduce the following facts in regard to the habits of the seals:

The Alaska fur-seals breed only on the islands of St. Paul and St. George, of the Pribilof group in Bering Sea. They have been unsuccessfully searched for at every other point along the coast. In 1872 Captain Archimandritoff spent the greater part of the summer in a schooner looking for a reef or island alleged to lie to the southward of Ounalaska. His cruise was fruitless, not only at this point, but at several others where he was led by some legendary tale or delusive dream to expect to find seal rookeries. Since that date the coast has been explored at every point, and it may be safely stated as a fact that no other rookeries exist on the northwest coast of the North American continent or the islands adjacent thereto.

The seals are migratory and return, as I believe, after migration to the vicinity and probably to the ground or rookery on which they were born. I have in several cases seen a certain seal with his harem during a number of consecutive seasons in

Alaskan fur-seal
breeds only on Pribi-
lof Islands.

Vain search for
them elsewhere.

Migratory.

the same spot. They are attracted to the islands in preference to other places by closely defined hereditary habits of migration, which take them from and to their breeding places with constant regularity, varied only within the limit of a very few days by meteorological conditions. The isolation and climate no doubt first induced their habitat upon these islands. If there has been any authentic observation of the birth of seals at other points on the northwest coast of North America, which I very much doubt, the case was anomalous and accidental. No doubt the young are occasionally aborted, out of season and out of place, and such birth may, perhaps, have been witnessed, but should not form the basis for any valuable deduction in locating the home of the animals.

The young seals, called "pups," are born in June and July upon the grounds on these islands known as "breeding rook-
eries." They are at birth very clumsy and helpless, Pups. possessing little ability to move about on land; and if born in the water, or swept from the shore soon after the birth, as I have several times witnessed, by the outgoing surf of heavy seas, perish from inability to swim. At this time they are simply land Unable to swim. animals, with less aquatic instinct and less ability to sustain themselves in water than newly hatched ducklings. When the pups are a few days old the mothers leave them (generally soon after coitus upon the rookeries with the old male) to go to the feeding grounds, returning at intervals of one to three or four days to suckle their young. The pups do not appear to recognize their own dams, but the mother distinguishes her own offspring with unerring accuracy, and allows no other to draw her milk. The pups remain upon the rookeries at or near the place where they are born until about five or six weeks old, when they congregate in groups or "pods," and about the same time begin to make excursions down to, and, after considerable hesitation and repeated trials and floundering, out into the water, where they become, within a few days, expert swimmers. From this time, say about the 10th of August, until the latter part of October or November, the young seals remain alternately upon the land and in the water, as their comfort may dictate. They are greatly influenced in this respect by the weather; very calm, pleasant days, as well as particularly rainy ones, inducing them to remain in the water, while during violent storms and heavy surf nearly all are found upon shore. But during this whole period, after they have acquired the ability to swim, they remain the major part of the time upon land. It should be particularly noted that they are not amphibious until several weeks old.

Early in November, convoyed by the older seals, the pups leave the island and go to the southward, apparently moved there-
to not only by migratory instincts, but because the Migration. weather at the islands at this time becomes unendurably severe for them, and perhaps for the further reason that a sufficient food supply for all can not be found in the immediate vicinity of the islands. But the inference is reasonable that they prefer to stay upon or near the islands at this time, from the fact that as long as the weather is comfortable the pups and nonbreeding seals may always be found there in large numbers; and even after snow falls, and severe weather has been recorded, the nonbreeding males, upon the recurrence of milder weather, again resort to land, and have, within the time of my connection with the business, been repeatedly Leave islands only when forced by weather or want of food.

captured upon the islands in considerable numbers in December and January. Without the data at hand from which to absolutely verify my statement, I think I am correct in saying that this class of animals remained in the vicinity of the islands throughout three of the twenty years from 1870 to 1890 and more or less of them were killed on shore in every month.

I believe all classes of seals would remain constantly about the islands if conditions of climate and food supply were favorable to their doing so. The fact remains, however, that the great mass of the pups

Course of migration.

migrate with their elders down through the passes between the islands of the Aleutian Archipelago into the North Pacific, and are found at any time during the winter months east of longitude 170° west and north of latitude 35° north. Toward spring they appear in increasing numbers off the coasts of California, Oregon, and Washington, and as the season advances still further north along the British Columbia and Alaska coasts in March and April; thence westerly in May and June and July until they reappear in Bering Sea. The course pursued by the seals in their migration is, to some extent, a matter of conjecture, and the knowledge upon which evidence is given concerning it can not of course be based upon actual personal cognizance by any one man of all the facts from which the conclusion is reached; but it is, nevertheless, I have no doubt, as accurately stated in this paragraph as is warranted by any series of observations.

The pups which I have so far followed in their first migratory round,

Yearlings.

now appear as "yearlings." They spend perhaps the greater portion of their time, the second summer, in the water, until the latter part of August and September, when they come upon the land, both sexes herding together indiscriminately. They are not at this time, nor are their elders,

Not timid,

particularly timid. Upon the near approach of a human form they start towards the water, but generally stop and look about them, unless closely followed, without any indication of fear, and leisurely proceed to the beach, or again lie down upon the sand or rocks. The same demeanor in the water, when about the islands, as they calmly float upon the surface until a boat is almost upon them before they awaken to any sense of danger, seems to indicate that they feel at home on and about the islands.

They again migrate southward for the second time, upon the approach

Second migration.

of cold weather, going a little earlier than in the preceding year, make the same round, and return to the islands as "two year olds" in June or July. Now the sexes separate, the females going upon the breeding grounds, where they are fertilized before the old male leaves the island in August. It has been said that

No copulation in the water.

copulation also takes place in the water between these young females and the so-called "nonbreeding males," but with the closest scrutiny of the animals when both sexes were swimming and playing together under conditions the most favorable in which they are ever found for observation, I have been unable to verify the truth of this assertion. After coitus on shore, the young female goes off to the feeding grounds, or remains on or about the beaches, disporting on the land or in the water, as her inclination may lead her. The male of the same age goes upon the "hauling

Hauling grounds.

grounds" back of or beside the rookeries, where he remains the greater part of the time, if unmolested, until nearly the date of his next migration. Here he has only the native

islander's club to fear, which, in the best interests of commerce, should not be used on him until the following year.

After the third migration the female returns to the breeding grounds to be delivered of her first pup, and the male comes again to the hauling grounds, but, as a whole, considerably earlier than he did when 2 years old. Here he remains pretty constantly, if he escapes the club, until the beginning of the rutting season, when his instincts lead him to stay much of the time in the water adjacent to the breeding grounds through which the females are passing from and to the rookeries, or when allowed by the older non-breeders, to coquette with the females upon the beach stones awash at the edge of the water.

Third migration and birth of first pup.

The fourth and fifth migrations are about the same as the third. The female has already become a yearly producer of a single offspring, and the non-producing male is, in each of the fourth and fifth years respectively, contributing a decreasing number of skins for market, and gaining size and strength to enable him, when 6 or 7 years old, to usurp the authority and jurisdiction of some old male whose days of usefulness are numbered. This change is not effected without sanguinary conflicts.

Fourth and fifth migrations.

The food of the fur-seal I believe to consist mainly of fish, and probably chiefly, while in Bering Sea, at least, of codfish, the partially digested vertebrae of this species having been found in the stomachs of slaughtered animals more frequently than any other food. Squid and crustaceans have also been found in some instances, but the supply of these is comparatively limited, while it is a well-known fact that the waters of Bering Sea at nearly all points, and particularly in that zone, from 20 to 60 miles south of the Pribilof group abound in cod. The presumption is well grounded that the old male, at least, makes good use of his opportunity in the off season, for he leaves the islands in August, after an absolute fast of three to four months, very lank and lean, and again takes his place upon the breeding grounds in April or May well rounded out with a thick envelope of blubber.

Food.

Bulls feeding.

In regard to the material facts here recited, there is, as far as I am aware, no controversy. All who have studied the matter with any care, and whose opinions are entitled to consideration, including many whose testimony has not been and can not now be recorded, agree to all the substantial facts as I have herein written them.

H. H. McINTYRE.

Subscribed and sworn to before me this 31st day of March, 1892.

[SEAL.]

SEVELLON A. BROWN,

Notary Public in and for the District of Columbia, U. S. A.

Deposition of H. H. McIntyre, Treasury agent, and superintendent for the lessees of the Pribilof Islands.

ROOKERIES ON PRIBILOF ISLANDS.

DISTRICT OF COLUMBIA,

City of Washington, ss:

H. H. McIntyre, of Randolph, Orange County, Vt., on being duly sworn, deposes and says, concerning the fur seals of Alaska and matters relative thereto, as follows: I am a native of Vermont, 48 years old, commissioner from Vermont to the

Experience.

World's Columbian Exposition of 1893, etc. In the years 1868 and 1869 I was special United States Treasury agent, assigned to duty in Alaska, and from 1870 to 1889, inclusive, superintendent of the seal fisheries of Alaska for the lessees.

As superintendent of the seal fisheries I visited the seal islands twice in the summer of 1870, remained constantly thereon from April, 1871, until September, 1872, and thereafter went to the islands every summer from 1873 until 1889, inclusive, excepting 1883, 1884, and 1885. I usually remained on the islands about four months, from May until August, in each season, supervising the annual seal catch, examining the conditions of seal life, studying the habits of the seals, and, in brief, doing such work as the interests of the lessees seemed to demand.

That while located on the Pribilof Islands I was the greater part of that period upon the island of St. Paul; that during the twenty-one years upon the islands I examined at frequent intervals of time the breeding rookeries on said island of St. Paul, and now recollect the condition of said rookeries and the approximate area which each of them covered at different times during my experience on said islands;

Has indicated by lines on charts limits of rookeries in 1870 and 1882.

that I have indicated to the best of my recollection the grounds covered by said rookeries in the year 1870 by a red line, and the grounds so covered in the year 1882 by a blue line, on the exhibits signed by me and marked exhibits A, B, C, D, E, F, and G. That the grounds indicated by said lines are practically correct and represent approximately the areas covered by breeding seals on said rookeries in said years of 1870 and 1882.

I further depose and say I have examined the charts of said St. Paul Island, made, as I am informed and believe, by J. Stanley Brown; that to the best of my knowledge the spaces represented on said charts, as grounds over which the bachelor seals have hauled at various times during my experience, are practically correct.

Verifies charts made by J. Stanley Brown.

H. H. McINTYRE.

Subscribed and sworn to before me this 31st day of March, 1892.

[SEAL.]

SEVELLON A. BROWN,

Notary Public in and for the District of Columbia, U. S. A.

Deposition of H. H. McIntyre, Treasury agent, and superintendent for the lessees of Pribilof Islands.

MANAGEMENT AND PELAGIC SEALING.

DISTRICT OF COLUMBIA,

City of Washington, ss :

H. H. McIntyre, of Randolph, Orange County, Vt., on being duly sworn, deposes and says, concerning the fur-seals of

Experience.

Alaska and matters relative thereto, as follows: I am a native of Vermont, 48 years old, commissioner from Vermont to the World's Columbian Exposition of 1893, etc. In the years 1868 and 1869 I was special United States Treasury agent assigned to duty in Alaska, and from 1870 to 1889, inclusive, superintendent of the seal fisheries of Alaska for the lessees.

As superintendent of the seal fisheries I visited the seal islands twice in the summer of 1870, remained constantly thereon from April, 1871,

until September, 1872, and thereafter went to the islands every summer from 1873 until 1889, inclusive, excepting 1883, 1884, and 1885. I usually remained on the islands about four months, from May until August, in each season, supervising the annual seal catch, examining the conditions of seal life, studying the habits of the seals, and, in brief, doing such work as the interests of the lessees seemed to demand.

That from the year 1870 there was an expansion of the areas of the breeding grounds and that in the year 1882 they were as large as at any time during my acquaintance with them; that during the three years following 1882, namely, 1883, 1884, and 1885, I was not upon the islands; that upon my return to said islands in 1886 I noticed a slight shrinkage in the breeding areas, but am unable to indicate the year of the period of my absence in which the decrease of breeding seals began; that from the year 1886 to 1889, inclusive, my observation was continuous and that there was a greater decrease of the seals for each succeeding year of that period, in a cumulative ratio, proportionate to the number of seals killed by pelagic sealers.

Increase of breeding ground from 1870 to 1882.

Decrease since 1886.

That during the twenty years I was upon said Pribilof Islands, as general agent of said Alaska Commercial Company there were reserved upon the breeding rookeries upon said islands sufficient vigorous bulls to serve the number of females upon said rookeries; that while I was located upon said islands there was at all times a greater number of adult male seals than was necessary to fertilize the females who hauled upon said rookeries and that there was no time when there were not vigorous bulls on the rookeries who were unable to obtain female consorts.

No scarcity of bulls.

So well was this necessity for reserving sufficient mature male life recognized that when in 1887, 1888, and 1889 the depleted rookeries (depleted from causes that will be explained further on) would not furnish the quota of 100,000 large skins, two and three years old male seals were taken to make up the quota in preference to trenching upon this reserve of maturer male life.

That during my experience I have watched carefully the driving of the bachelors from the hauling grounds to the killing grounds; that there has never been any variation in the methods of driving; that the prevention of injury to the seals from driving was kept constantly in mind and the greatest care exercised that no such injury occurred; that the number of seals killed by overdriving or by smothering was very inconsiderable at all times, and that said seals so killed could not make any appreciable difference in the numbers of seals who breed and haul upon the said islands; that up to 1882 there was no difficulty in procuring the required number of killable seals; that the killing of bachelors upon remote rookeries such as Zapadnié was not from necessity but at the request of the Government agents, in order that the number taken from each hauling ground might be equalized; that this did not involve driving long distances, for a salt house was established at Zapadnié, and the skins brought away in boats; that after the year 1875 the lessees of said islands supplied carts for the transportation of skins from the killing grounds to the salt houses and storehouses; that because of the facility for carrying the skins, killing grounds were established at points much nearer the hauling grounds than ever before, and from that date the seals were driven much shorter distances to the killing grounds; that skins were so transported from Polavina or Halfway Point, on St.

Driving.

No difficulty in procuring quota of skins up to 1882.

Improved methods in driving and killing.

Paul, and from Zapadni, on St. George, upon the backs of donkeys; that there were no destructive agencies at work upon the island that would not have left the rookeries in better condition in 1890 than they were in 1870; that until the effects of the true agent of destruction began to be manifest there was an excess of male life on the islands sufficient to permit of an annual catch of 100,000 seals for an indefinite period without jeopardizing the rookeries; that if it be remembered that the seals taken in the water by hunters are chiefly females, that their young die with them and that all of those killed are not secured, and if then an examination be made of the pelagic skins actually sold during the past twenty years the real source of the depletion of the rookeries will be found; that in my judgment such depletion was caused by pelagic sealing, and that it grew greater from year to year as the number of so-called poaching schooners increased; and that its effects began to manifest themselves about 1885 or 1886; that the depletion on both hauling and breeding grounds is accounted for by the fact that the catch of said pelagic sealers consists of at least 85 per cent cows; that said cows when taken in the North Pacific are in the majority of cases with pups, and in Bering Sea are so-called milking females; that whenever a milking cow is killed, her pup on the rookeries dies of starvation. In support of this fact last stated, the number of dead pups during the last four years I was upon the islands increased annually; that the effects of the comparatively few raids upon the rookeries themselves, while injurious, bear but a small ratio to the enormous damage done by the pelagic hunting.

Decrease caused by pelagic sealing.

Pelagic catch 85 per cent females, the majority pregnant or nursing.

Dead pups.

Raids.

ous, bear but a small ratio to the enormous damage done by the pelagic hunting.

That those in charge of said islands did not when said decrease on said rookeries commenced know conclusively the cause thereof; that my opinion then was that it was caused by pelagic sealing, but had been informed and believed that the United States Government intended to seize all such poaching vessels; that relying upon such information I authorized the taking of seals as before; that such protection of seal life was not fully carried out in Bering Sea and the North Pacific by reason of England's interference, and that the rookeries were thus depleted.

I am fully convinced from my knowledge of seal matters that if this indiscriminate and reckless destruction of the Pribilof seal herd continues as it has done in the past six years in Bering Sea and the North Pacific, the seals will be practically exterminated in a very few years, even if the United States Government should not allow any seals to be taken on the Pribilof Islands, for the destruction of females in the water has reached a number that can not be met by the annual increase.

Unrestricted pelagic sealing will destroy the Alaska herd.

Protection necessary.

A zone of 30 miles valueless.

In my judgment the seals should be protected in Bering Sea and the North Pacific, and that pelagic sealing should be entirely prohibited in the said waters. A zone of 30 miles about the seal islands within which seal hunting would be prohibited would be valueless in preserving seal life; first, because Bering Sea during the time the seals are there is almost constantly enveloped in fogs and mist, under cover of which marauding vessels could run in very near to the islands without being observed, if allowed to come as near as 30 miles thereto; second, because for over 30 miles from said islands great quantities of seals are found coming from and going to the

islands from the feeding grounds; and further, because seals found in the waters for 60 to 100 miles about said islands are much bolder and easy of approach than in the open sea, through the proximity of their island home.

Therefore, in my judgment such a 30-mile zone would be of practically no use as a means of protection to seal life, because of the impossibility to enforce such a law, and because of its inefficiency if enforced.

(Interlineations herein in my handwriting were made before signing.)

H. H. McINTYRE.

Subscribed and sworn to before me this 5th day of April, 1892.

[L. S.]

SEVELLON A. BROWN,

Notary Public in and for the District of Columbia, U. S. A.

Deposition of H. H. McIntyre, Treasury agent, and superintendent for the lessees of the Pribilof Islands.

MANAGEMENT AND PELAGIC SEALING.

STATE OF CALIFORNIA,

City and county of San Francisco, ss:

Concerning the seal fisheries of Alaska H. H. McIntyre, of West Randolph, Vt., deposes and says, on oath: My first knowledge of the fur-seals of Alaska was obtained when I went to that Territory in 1868, as special Treasury agent, under instructions from the honorable Secretary, to report what action was necessary to be taken by the Government for preserving the seal rookeries and securing a

Experience.

revenue therefrom. I arrived in Sitka in November, 1868; remained there a few days and went thence to Victoria, British Columbia, touching at all principal points between Sitka and Victoria, spending the entire winter of 1868 and 1869 among the Indians and fur traders, learning their traditions and customs, and noting their catches of furs and manner of doing business. It came to my knowledge at that time that a considerable number of fur-seals were being killed by the Indians, mostly by the use of spears, in the waters adjacent to Vancouver's and Queen Charlotte's islands. The total

catch obtained in this way amounted at this time, as I was told by the late United States consul, Francis, to

Coast catch by Indians prior to 1869.

3,000 to 5,000 skins per annum. The consul further said that the catch was chiefly females, many of which were pregnant. The Indians hunted from dugout canoes, and could not go far from land. In the spring of 1869 I joined the United States revenue steamer *Lincoln*, and made the summer's cruise in her of about four months, touching at many points along the Alaska coast between Sitka and the most westerly island of the Aleutian Archipelago, visiting the Pribilof group twice during the season.

The habits of the seals and manner of driving and killing them during Russian occupation of the islands, and in 1868, after the transfer of Alaska to the United States, were as carefully inquired into as the limited time and opportunity would admit, and reported to the Treasury Department under date of November 30, 1869 (House Ex. Doc. 36, Forty-first Congress, second session). This report, together with that of Special Agent Charles Bryant, formed the basis of subsequent legislation providing for the leasing of the right to kill 100,000

Aliant's report to Treasury on which legislation for lease was based.

seals annually for their skins. The report was, in the absence of more reliable information, largely based upon the traditions and opinions of the natives and traders, to whom the management of the sealeries was intrusted by the Russian Fur Company, and was afterwards found to be erroneous in many particulars. Upon the main point, however, that of fixing 100,000 seals as the proper number to be killed annually, we have shown by the experience of many years to have been correct.

Lessees' quota of skins easily taken from 1871 to 1885.

This number was easily secured every year from 1871 to 1885, and at the same time a constant increase of the seal rookeries was observed. I am satisfied that with good management upon the islands, and the cessation of pelagic sealing, this number could have been secured annually up to this time, and for an indefinite future. The total number of seals was

Estimated seal population.

stated in that report to be "not less than 4,000,000 upon the two islands." I am satisfied that this estimate was too high, and that the more recent estimates published in the reports of officers of the Treasury Department who have been at different times stationed upon the islands, or detailed to report upon the sealeries, have been still more erroneous than my own. My figures were made without any attempt at mathematical computation, and were mere guesses at the possible number of seals upon the different rookeries.

My successors have attempted to measure the ground occupied by the seals, and by multiplying the number upon a given area as ascertained by count, by the whole area of the rookeries, to arrive at an approximation to the total number. They added to their computation a large percentage to cover the number supposed to be in the water at the time, but did not subtract for the inaccessible portions of the grounds, vast tracts of which are covered with boulders and lava rocks,

Difficulty of estimating population.

where no seals could lie, or skirted with acclivities they could not ascend. That is, the estimates were made from measurements necessarily taken after the seals had left the rookeries, and sometimes weeks or months afterward, with only the recollection of the ground they had formerly occupied to guide the observer. Many sections were included which had been but thinly populated, if at all. An attempt to secure even an approximative census of seals may well be regarded with suspicion. Yet their habits are so well defined and unvarying that it is an easy matter to determine

But easy to determine an increase or decrease.

whether they increase or decrease from year to year, because they always occupy the same portions of certain beaches, and simply expand or contract the boundaries of the rookeries as they become more or less numerous. I returned to Washington, D. C., in November, 1869, and was placed in charge of work during the following winter and spring pertaining to Alaska and the sealeries, in the office of the Secretary of the Treasury.

In June, 1869, I accepted the position of general agent of the Alaska Commercial Company, and in the following August, when the lease of the right to take seals was executed, I became superintendent of seal fisheries for the lessees, and remained in this position until the spring of 1890. In this capacity I visited the Pribilof Islands, and remained there every sealing season except those of 1883, 1884, and 1885, and

Driving and killing.

was there also during the winter of 1871-72. In killing seals for their skins, the methods employed by the Russian Fur Company, prior to American occupation, were closely followed, except that many innovations and improvements were instituted and adopted after the first year of the lease. The work was chiefly



PART OF REEF ROOKERY, ST. PAUL ISLAND.

done by the natives, each gang of workmen being headed, as under Russian custom, by a native chief. All thoroughly understood the work, having been bred to it from boyhood. Great care was always exercised in approaching the sealing grounds to disturb them as little as possible. On some occasions a considerable number of bulls, nearly large enough for rookery service, and rarely a barren cow, were unavoidably gathered up from the beach and started inland with the herd. The greater part of these, at first opportunity, were segregated from the drove and sent back to the water. The drove was frequently allowed to rest, and whenever practicable driven through some of the numerous ponds, or across marshes, to keep them cool. Generally the loss of life from the "drive" was very small, amounting, after the first two or three years, to only a fraction of 1 per cent of the number killed. And nearly all that perished on the road were skinned, and the pelts counted in our annual quota. Upon reaching the killing ground the herd was, in dry weather, placed upon moist ground and allowed to cool off.

When killing, if the herd collected upon the slaughter grounds was of considerable size, a portion of it was segregated and taken to the immediate vicinity of the workmen, the remainder being left at rest. This portion was again subdivided into "pods" of twenty-five to seventy-five animals and driven directly to the killing gang, generally comprising six or seven men, who with a single blow knocked senseless such seals as they were directed by the "boss" to kill, and the remaining ones were driven aside and allowed to find their way back to the water at will, which they usually did shortly after being set at liberty. Of course many of these were redriven, and Redriving. some of them several times during the season, but I believe no injury resulted to them from this process. They were subjected upon the drive to no greater exertion, and rarely to more cruel treatment in any way than we habitually put upon our domestic animals. The only noticeable effect upon them resulting from the "drive" was sometimes abraded hind flippers, and of course the signs of healthy fatigue naturally following continued exertion, from which they quickly recovered. The loss of virility and destruction of reproductive power in the older males by reason of repeated driving and other hardships to which the young animals are sub- Virility of seals not impaired by redriving. jected upon the islands, exists, if at all, only in the imagination of theorists who have reported upon the subject. It is arrant nonsense. Impotent males are never seen there in any species until they have become so by old age. Female seals were very rarely included in the driven herd, and never killed except by accident.

In 1871, for want of trained assistants the majority of the seals were killed under the supervision of native chiefs. We had no teams, and were poorly supplied with boats and other facilities for transporting the skins and doing the work. Salt houses were inconveniently located, and the business was transacted in a crude way, under great disadvantages. The skins and all other material upon the islands requiring to be moved were carried upon the backs of men, a wearisome and disagreeable task after a day's work on the killing grounds. The results were unsatisfactory. The catch obtained under the direction of the chiefs comprised mainly small, light skins, because such could be easiest secured and transported. The work progressed slowly, as it had always formerly done under Russian direction. Less than two-thirds of the quota of skins were obtained in June and July. During August we were prohibited by law at that time from killing seals. Work was

resumed at a later date, and finished shortly before the seals migrated, thus keeping them in a state of unrest and commotion nearly the whole summer. But the custom did not differ in this respect from that pursued by the Russians. In 1872, and every year thereafter, an American

“boss” was placed at the head of every gang of natives, our tools and salt houses were improved, supplies of salt for “kenching” skins increased, and the seal catch was pushed to completion before the end of July. Additional salt houses were erected in this and the two following years contiguous to the respective rookeries, in order to avoid long “drives” and facilitate the work of the men. In 1873 a horse and team of mules were taken to the island in furtherance of the same object, and these were added to from year to year, and supplemented by several boats and a steam launch, so that long before the expiration of the lease, the labor put upon both seals and men was very greatly reduced. Under better management, the quality of the catch sent to market constantly improved. The skins averaged larger and more uniform in size than had been formerly secured.

During the whole period of seventeen years from 1868 to 1885, no difficulty was experienced in obtaining the full quota of 100,000 well selected, marketable skins. I know this to be a fact during all these years, up to and including 1882, from personal observation and experience continued from day to day, in actively managing the business, and am assured by the daily record kept by my assistants, and by their reports to me from time to time, that they were equally successful in seasonably obtaining a desirable catch from 1883 to 1885, inclusive, while I was away from the islands. The work was not completed as early in the seasons from 1880 to 1885 as it had formerly been. This was chiefly due to the greater care exercised in selecting animals to be killed. In order that the selection should be made from as large a number as possible, and to satisfy the requirements of the Treasury agents in charge, who demanded that all the rookeries be worked in regular rotation, we commenced in 1879 or 1880 to “drive” with greater frequency from the more distant and less accessible grounds. These distant animals were not, however, driven to the village killing grounds, as has been represented, but were slaughtered as near the rookeries as seemed prudent with regard to the welfare of the breeding seals, and the skins were transported in wagons or boats to the salt houses. With this exception, there was no change in the manner of conducting the business from 1870 to 1889.

In 1886 I again assumed personal direction of the work upon the islands, and continued in charge up to and including 1889. And now, for the first time in my experience, there was difficulty in securing such skins as we wanted. The trouble was not particularly marked in 1886, but increased from year to year to an alarming extent, until in 1889, in order to secure the full quota and at the same time turn back to the rookeries such breeding bulls as they seemed to absolutely need, we were forced to take fully 50 per cent of animals under size, which ought to have been allowed one or two years more growth. Concerning this matter I reported to the Alaska Commercial Company under date of July 16, 1889, as follows: “The contrast between the present condition of seal life, and that of the first decade of the lease is so marked that the most inexpert can not fail to notice it. Just when the change commenced I am unable, from personal observation, to say, for as you will remember I was in ill health and una-

Improved methods.

Full quota of skins obtained from 1868 to 1885.

Rotation in driving from the rookeries.

Difficult in 1889 to secure the proper skins.

Report to the lessees on the subject.

ble to visit the islands in 1883, 1884, and 1885. I left the rookeries in 1882 in their fullest and best condition, and found them in 1886 already showing slight falling off, and experienced that year for the first time some difficulty in securing just the class of animals in every case that we desired. We, however, obtained the full catch in that and the two following years, finishing the work from the 24th to the 27th of July but were obliged, particularly in 1888, to content ourselves with smaller skins than we had heretofore taken. This was in part due to the necessity of turning back to the rookeries many half-grown bulls, owing to the notable scarcity of breeding males. I should have been glad to have ordered them killed instead, but under your instructions to see that the best interests of the rookeries were conserved, thought best to reject them. The result of killing from year to year a large and increasing number of small animals is very apparent. We are simply drawing in advance upon the stock that should be kept over for another year's growth."

In the process of securing the annual catch of seals for their skins, the breeding animals were very little disturbed. No one was allowed to molest them; dogs were banished from the islands. The use of firearms was forbidden. The rendering of oil from seal-blubber was stopped after the second year's trial, because the smoke and odor seemed to disturb the rookeries near the works, and every precaution was adopted which good husbandry could suggest for the perpetuation of the industry. The seals were apparently subject to no diseases; the pups were always fat and healthy, and dead ones very rarely seen on or about the rookeries prior to 1884. Upon my return to the islands in 1886, I was told by my assistants and the natives that a very large number of pups had perished the preceding season, a part of them dying upon the islands, and others being washed ashore, all seeming to have starved to death. The same thing occurred in 1886, and in each of the following years to and including 1889. Even before I left the islands in August, 1886, 1887, and 1888, I saw hundreds of half-starved, bleating, emaciated pups, wandering aimlessly about in search of their dams, and presenting a most pitiable appearance. For if the mother seals are destroyed, their young can not but perish; no other dam will suckle them; nor can they subsist until at least three or four months old without the mother's milk. The loss of this vast number of pups, amounting to many thousands, we could attribute to no other cause than the death of the mother at the hands of pelagic seal hunters.

Between 1874 and 1883 predatory vessels occasionally appeared in Bering Sea, among them the *Cygnets* in 1874 and the *San-Diego* in 1876, but the whole number of seals destroyed by such vessels was small, and had no appreciable effect upon the rookeries; in 1884 about 4,000 skins were taken in Bering Sea by three vessels, and starved pups were noticed upon the islands that year for the first time. In 1885 about 10,000 skins were taken in this sea, and the dead pups upon the rookeries became so numerous as to evoke comment from the natives and others upon the islands. From 1885 to the present time the fleet of predatory vessels has constantly increased in proportion as the seal herd has decreased. From 1869 to 1882 the seal rookeries largely increased. I know this from accurate personal observation, and reported relative to it to the Alaska Commercial Company July 16, 1889, as follows: "The breeding rookeries from the beginning of the lease until 1882

Disturbance of the rookeries.

Dead pups.

Poachers.

Cygnets, 1874.

San Diego, 1876.

Increase of number of dead pups and of poachers.

Increase of rookeries from 1869 to 1882.

or 1883 were, I believe, constantly increasing in area and population, and my observations in this direction are in accordance with those of Mr. Morgan, Mr. Webster, and others who have been with me for many years in your service, and of Special Treasury Agent J. M. Morton, who was on the islands from 1870 to 1880. Even as late as 1885 Special Treasury Agent Tingle reported a further increase of breeding seals; but his estimates were made in comparison with those of Prof. H. W. Elliott of 1872 and 1873, and he was probably not fully aware of the fact that the increase had occurred prior to 1883, and that in 1885 there was already perhaps a slight diminution of breeders."

A very noticeable decrease in the herd commenced, as I have already pointed out, in 1886, and was coincident in time and proportionate in extent with the number of seals destroyed in the water. The business of pelagic sealing in Bering Sea first assumed considerable proportions in 1884, and in that year dead pup seals first became numerous enough upon the rookeries to excite remark upon the islands. As the sealing fleet increased, the starved animals became more numerous. In 1887 fourteen vessels were seized for illegal sealing, and the effect was seen in the following year when a much less number engaged in the business and the Bering Sea catch amounted, as I am informed, to about 34,000 skins, against about 19,000 or 20,000 in 1888. The failure of the United States Government to vigorously pursue in 1888 and the following years the repressive policy so auspiciously begun in 1887, led to a large increase of the sealing fleet and corresponding destruction of the herd, but the prohibition of pelagic sealing nevertheless continued, and the usual proclamation was published by the Government warning all parties not to kill seals in Bering Sea or waters adjacent to the Alaskan coast.

The policy of the Alaska Commercial Company, during the whole period of its lease, was, as might be naturally expected, to obtain the best possible skins for market, and at the same time preserve the rookeries against injury, for it was not only in their interests to be able to secure every year, until the expiration of the lease, the full quota allowed by law, but they confidently expected, by reason of their good management of the business, and faithful fulfillment of every obligation to the Government, to obtain the franchise for a second term. I was, therefore, always alert to see that the due proportion of breeding males of serviceable age was allowed to return to the rookeries. This was a comparatively easy task prior to 1882, but became from year to year more difficult as the seals decreased. No very explicit orders were given to the "bosses" upon this point until 1888, because the bulls seemed to be plentiful enough, and because it was easier to kill and skin a small seal than a large one, and the natives were inclined for this reason to allow the large ones to escape; but in 1888 and 1889 there was such a marked scarcity of breeding males upon the rookeries that I gave strict orders to spare all five-year-old bulls and confine the killing to smaller animals.

Through all this slaughter, involving the driving and re-driving, year after year, of the same seals, they did not become more timid when on land; but on the contrary, those resorting to the grounds most frequently disturbed were more tractable and easier driven and killed than the ones from remote points, as at Polavina or West Point, on St. Paul, or Zapadne at St. George. The "killing gang" frequently spoken of, and I myself, ob-

Decrease of herd
and increase of pelagic
sealing.

Policy of the Alaska
Commercial Company.

Scarcity of breeding
males in 1888 and
1889.

Tameness of the
seal.

served the harder work in handling and subdividing the drove from the more distant places, because of the more savage intractable character of the bulls.

I believe the seals to be susceptible of a high degree of domestication. If their strong propensity to bite whatever comes within offensive proximity, whether it be, seal cub or a hunter's limb, could be cured, they could be as easily managed as a flock of sheep. Each one of the young pups driven for the customary food supply before their first migration is picked up by the hind flippers to determine the sex, females even at this age being spared, and when thus in the hands of the hunters could be as readily marked or branded as any thoroughly domesticated animal. In fact, a large number were thus marked in 1872, by Special Treasury Agent Charles Bryant, by clipping the ear as a means of further identification. Every seal upon the islands has in this way been, or might have been, if we had so elected, within our very grasp, to kill or not to kill, to brand or not to brand, as we thought best, its skin having at the same time commercial value. I conceive that no further act of domestication is required to constitute under common law complete and absolute ownership, coupled, of course, with the right of protection of the property, wherever found.

Susceptible of a high degree of domestication.

Possibility of branding or otherwise marking.

In respect to the propagation and perpetuation of the species, they are as controllable and amenable to good management upon the islands as sheep or cattle. If the right proportion is maintained between the sexes, the greatest possible number of progeny is assured. As long as we were able to keep exclusive control, undisturbed by outside influences, we maintained the steady increase of the herd and profitable returns from the industry. When outside parties, beyond our jurisdiction, carried on their destructive work, to any considerable extent, the equilibrium of the sexes was destroyed, any calculation of those in charge of the islands was nullified or miscarried and the speedy decrease and ultimate destruction of the seals and sealing industry made certain.

Propagation and perpetuation of the species.

In contemplating this destruction, the natives of the seal islands are most deeply interested, for they are wholly dependent upon the seals for a livelihood. The ancestors of the three hundred people now upon the islands were taken there more than one hundred years ago, and their descendants have been born and bred to their occupation of seal killing, and know no other. Prior to 1868 the Russians furnished them only indifferently well with coarse articles of food and clothing which the seals did not supply, but left them to live in unhealthy conditions in their damp underground houses, often unsupplied with fuel and not infrequently short of food. Under the liberal management of the Americans they have been provided with comfortable wooden houses, an abundance of coal to heat them, warm clothing, well-taught schools in comfortable school-houses, attractive churches in the Greco-Russian faith, to which they are devotedly attached, and, in short, with all the comforts and many of the luxuries of civilization. With these surroundings they have made remarkable progress, rendered possible by their income of more than \$40,000 per annum from the seal fisheries, without which they are left in absolute poverty, and must either leave their island home in search of other employment of which they know nothing, rely upon the charity of the Government for meager support, or starve. They rightly charge these

Effect of destruction on natives.

Improved condition of natives under American management.

dire alternatives upon the pelagic seal hunters, who have ruthlessly destroyed the herd in which every native had a certain vested right, in the exercise of which he deserved the protection of the Government into whose care he has come.

H. H. McINTYRE.

Subscribed and sworn to before me this 12th day of May, 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of H. H. McIntyre, special Treasury agent and superintendent for the lessees of the Pribilof Islands.

MANAGEMENT.

STATE OF VERMONT,
Orange County, ss:

H. H. McIntyre, of Randolph, in said county, having been duly sworn, Experience. deposes and says: I am a native of Vermont, 48 years old. In the years 1868 and 1869 I was special United States Treasury agent assigned to duty in Alaska, under particular instructions to visit and report upon the seal fisheries of Alaska, and from 1870 to 1889, inclusive, I was superintendent of the sealeries for the lessees of the Pribilof Islands. In these capacities I first visited the seal islands in the summer of 1869, and every year thereafter until and including 1889, except the years 1883, 1884, and 1885. In 1871 and 1872 I stayed there continuously for about sixteen months, and in each of the other years from two to four months, through the sealing season. I also visited London twice during my superintendency in connection with the sealing industry, and was at all times actively at work in the interests of my employers. My duties as such special Treasury agent and superintendent demanded and received my attention to every detail of seal life and its relations to commerce. In the discharge of these duties I was constantly aided by able, intelligent assistants and native seal hunters, whose daily observations and reports were from time to time communicated to me.

The work of seal killing is done by the Aleutian inhabitants of the seal islands under the immediate supervision of the Killing. superintendent for the lessees and his assistants. The natives are directed by their chiefs, who are either chosen by themselves or appointed by the Treasury agent in charge. The force of natives is divided into gangs of 20 to 30 men, each gang being led by an assistant superintendent and native chief, and comprises the proper number of "clubbers," "rippers," and "skinners."

Driving.

In describing the habits of the seals it has already been pointed out that the "bachelors," or killable seals, haul out upon the land separate and apart from the breeding rookeries, and it follows that they may be herded together and driven in from the beaches to the killing grounds without in the least disturbing the breeding seals. During the killing season, beginning the 1st of

Driving; how done.

June, or as soon as the seals arrive thereafter, it is customary for the superintendent to ascertain the day before a drive is to be made where the killable seals lie, and to instruct the chief in the evening in regard to the work for the following day.

At daybreak, about 1 or 2 o'clock in the morning, the chief calls a sufficient number of men, usually from six to twelve, and leads them to the designated beach. They approach the hauling ground as noiselessly as possible, keeping to the leeward of the seals until a point is reached whence the "run" is to be made, when, at the word, all move at the top of their speed along the edge of the surf and take intervals, like a skirmish line of soldiers, between the seals and the water, at the same time making such demonstrations by swinging the arms, flourishing caps and coats, or beating bones or sticks together as to alarm the animals and cause them to rush inland. The drove is quickly collected and brought together in one mass. When it has moved a short distance from the water it becomes perfectly manageable and is then divided into detachments of 500 to 1,000 seals; each detachment is placed by the chief in charge of a trusty man, who, aided by two assistants, one on each flank and himself in the rear, brings his drove along towards the killing grounds at a speed varying from a few rods to a mile an hour, in accordance as the weather may be hot and dry or moist and cool. If the chief is efficient and properly instructed, the seals are at the killing ground by 5 or 6 o'clock in the morning, and are given an hour or two to rest and cool before the gang turns out after breakfast for the day's work.

Speed in driving.

The longest drive made during recent years is that from English Bay to the village on St. Paul Island, about $2\frac{1}{2}$ miles. Formerly it was customary to drive from Halfway Point and Southwest Bay to the village grounds, but it was found to be less trying to the seals and better economy of labor to kill nearer to these rookeries. Mule teams and boats on St. Paul and pack animals on St. George were accordingly supplied several years ago for transporting the skins from these more distant points, and the killing has since been conducted as near the rookeries as practicable.

Longest drive in recent years.

In driving, advantage is taken of every snowbank, small lake, or stretch of marshy ground to rest and cool the drove; and if very hot and dry or the sun breaks out, it is kept in a cool place until the conditions change. Sometimes the practice of driving the seals in the afternoon and evening of the day before they are to be killed has been followed. In this case one herdsman through the night is sufficient to prevent their escaping.

Precautions taken.

The fur-seals do not travel on the land with that ease of locomotion characteristic of purely land animals, but on the other hand, they move with great freedom compared with other species of seals. Their enforced action on the drive is, as a rule, but little more violent than they voluntarily take upon the rookeries when moving up and down the slopes and playing with each other.

Locomotion of fur-seals.

There are generally in each drive a few bulls, full grown or nearly so, too large for killing, and occasionally a dwarf or sickly seal and rarely a female, all of which are segregated from the mass as soon as possible and left behind to find their way back to the water. Much depends in driving upon the good judgment of the man in charge as to when and how long they should be allowed to rest, and in keeping the herd spread out so as to

Bulls and females excluded from the drove.

prevent the animals from huddling together and crowding. With proper management, the loss from driving is but a fraction of 1 per cent, and nearly all are skinned and the skins counted as a part of the annual quota. The animals that are found unfit for killing and are allowed to return to the water to be repeatedly driven later in the season, suffer, in my opinion, no injury. I have seen it stated by theorists with little or no practical experience, that the exertions to which the seals are subjected on the drives is unusual and excessive; and they infer that it must injure the animal's reproductive usefulness. With more extended observation and experience they would discover that such is not the case. The best practical illustration of this fact is found on Copper Island of the Commander group where, for the past twenty years or more, it has been customary to drive nearly all the the seals over a very rough mountain trail across the island, and to practice the same methods in the killing that we have pursued at the Pribilof Islands, with the result of constantly and healthfully increasing the herd. That seals are occasionally injured or lost by improper handling is no sufficient reason for abandoning a system of management which proves satisfactory when properly administered. These theorists apparently find it very easy to criticise the management of the seals without suggesting any way in which to improve it.

Killing.

During the seal-killing season the men turn out to their work about 6 o'clock a. m. Each man in the gang is assigned by the chief to his appropriate part of the work. If the force comprises say twenty-two men, the most inefficient one will be designated as "herdsman" to watch the drove and keep it as near the workmen as practicable; five of the most active, athletic young men are detailed as "clubbers," of whom two are called "drivers," it being their duty to cut off from the drove small detachments or "pods," of from forty to seventy-five seals and drive them up to the killers. If the drove contains a considerable number of adult bulls, or the seals are tired or the day warm and humid, the "drivers" have the most laborious part of the work. Next, one boy is detailed as "stabber," five as "flipperers," and the remaining ten, those who are most expert in the use of their knives, as "skinners."

The clubbers are each armed with a turned hickory club, 5 feet 2 inches long, of best straight grained wood, like an exaggerated baseball club, and a sharp pointed hook, similar to a stevedore's cargo hook, which he carries in his belt or boot leg. The stabbers and flipperers have double-edged knives 6 or 7 inches long, and the skinners ten or twelve inch single-edged blades; and each man a small, fine-grained oil stone of which he makes very frequent use, finishing the sharpening process on his own palm or the seal's flipper, for the edges must be as keen as razors to effectually do the work.

If the drove contains more than a few hundred seals, a portion of it is cut off and brought to within about 75 or 100 feet of the place where the first "pod" is to be killed. The drivers step quickly along the flanks of the drove at several feet distant from it, and approach each other from opposite sides at a point to detach 50 or 60 animals. These are driven directly to the clubbers who have been previously instructed by the assistant superintendent what class of seals they are to kill and

where they are to begin operations. At the word from the chief the blows fall in quick succession, a single blow upon the head of each seal designated being always sufficient to completely stun him, and usually to fracture his skull. Those remaining are carefully looked over by the assistant superintendent, such of the doubtful ones killed as he may direct, and the remaining ones driven to one side and allowed to return to the water at will; or, after a few hours, if any remain about the field, a boy is sent to head them toward the sea. The clubber's sharp hooks are now stuck into the noses or flippers of the fallen seals and they are dragged apart and laid singly, as closely together as convenient for the skimmers. This is very necessary, because, if left in a heap as they are slain, the heat at points of contact quickly loosens the fur and spoils the skin. The drivers now "run" to bring up the next "pod," the stabber thrusts his knife to the heart of the stunned animals and the flipperers follow as soon as the seals are dead, to cut the skin around the head just in front of the ears, around the posterior extremity between the body and hind flippers, around the two fore flippers and down the median line of the belly. Next he is taken in hand by the skinner, who quickly flays him with dexterous strokes of his long, keen-edged knife, leaving a considerable layer of blubber upon the skin to prevent its hardening and drying in the salting process. When it is desired to save the blubber as well as the skin, both are removed from the carcass together and flayed apart with skillful strokes of the knife.

The seal killing is done in a very orderly, systematic manner, and the attendant waste is surprisingly small when done with skilled labor. Rarely an undesirable seal is hit by a clubber, and occasionally the sun will shine out unexpectedly and so heat the skins before they can be removed, as to loosen the fur and cause it to pull out, but the entire loss under judicious management amounts to only a few score of skins in a hundred thousand. An experienced force of 22 men can easily slaughter and properly cure the skins of an average of 1,500 seals per day through the season.

When the skin has been removed from the carcass it is thrown, flesh side down, upon the damp ground, and as soon thereafter as convenient hauled to the salt house, where each one is examined and counted, in the presence of the native chief, by the Treasury agent and the assistant superintendent, in order to determine when the number allowed by law has been taken and to form the basis for payment to the natives for their work.

Salting.

In the early days of the sealing industry it was always customary to dry the skins for market by stretching them upon the ground by means of wooden pins driven through their edges or by the use of stakes and twine. But this process made the skin difficult to unhair in dressing, and, moreover, in the very damp climate of Alaska it was often impossible to dry the skins thoroughly enough to prevent their decaying en route to market. Large numbers of skins were lost, I am informed, in this way, even after artificial heat was resorted to for drying them, and it was found most profitable to salt them and ship them in salt to market.

The salting is done in rows of bins called "kenches." Each skin is thrown to the man in the kench, who quickly spreads it, flesh side up, and a third shovels salt enough upon it to completely cover its surface. The next skin is spread in the same way above the first, and so on with alternate layers of skins and salt

until the kench is full. Here they lie from five to seven days and are then shaken out, any curled edges are unrolled and salted, and the skins are folded with a small quantity of salt between the folds, and again piled to complete the curing process. A few days later they are once more pulled apart and spread out, sprinkled with a handful of salt and rolled and tied in compact, cylindrical bundles containing two skins each, flesh sides together. In this shape they are lightered from the warehouses to the vessel in the skin boats built by the natives, and shipped to San Francisco, where they are packed in casks holding from fifty to sixty skins each, and forwarded to London via New York, by railroad and steamer.

The practice of salting the skins was followed to some extent by the Russians during the last few years prior to the cession of Alaska to the United States, and in nearly every particular the management of the sealeries by the Americans is the same as that pursued by the Russians during the last years of their occupation. Since about 1835 the female seals have been invariably spared, and if the sealeries are to yield the best returns in future, the wise system under which they have been heretofore protected must be rigidly maintained. The habits of the animals are such, in the separation of breeders from nonbreeders when on shore, that this can be easily accomplished; yet the fact should not be lost sight of that both breeders and nonbreeders are, in the course of every season, completely in the power of the occupants of the islands, and the entire herd may be slaughtered to the immediate advantage of their possessors, if, by reason of international complications, or any other cause, it is found desirable to exterminate them.

Many improvements were introduced by the Americans upon Russian methods, more particularly in systematizing the work upon the slaughter grounds, in providing convenient buildings in which to salt and bundle the skins, and in furnishing means for transporting them from the field to the salt houses and thence to the vessels; but the management of the rookeries as regards their preservation and growth has varied very little since 1835 or 1840, when the Russians awoke to the fact that all of the females and a proper proportion of the males should be spared.

The age at which the male seal should be killed for his skin to best meet the present demands of the market, is 3 and 4 years old. It is, of course, as with other animals, impossible to say in every case just how old a seal is, but in the large majority of cases an experienced seal-killer will determine with accuracy from the size of the animal, the growth of hair upon the neck, and the length and size of the canine teeth.

The average weight and length of the different sizes and ages may be generally stated about as follows:

	Length.		Weight.	
	Inches.		Pounds.	
At time of birth.....	12		7	
At 1 year old.....	38		39	
At 2 years old.....	46		60	
At 3 years old, male.....	54		90	
At 3 years old, female, nearly full-grown.....	54		60	
At 4 years old, male.....	60		150	
At 4 years old, female, full-grown.....	56		80	
At 5 years old, male.....	66		225	
At 6 years old, male.....	75		350	
At full adult age, male.....	78		450	

The sex of the yearlings is not easily determined unless the animal is caught and examined. The shape, size, and color ^{Distinguishing the} of the two sexes are very closely alike at this age. ^{sex.} At 2 years old it is less difficult, and there is very little risk in assuming that all those found at this age with the nonbreeders are males, because all, or nearly all, the females at 2 years old consort with the breeding seals upon the rookeries. In the last two years of the Alaska Commercial Company's lease of the sealeries large numbers of 2-year old seals were killed under my direction, but never, to my knowledge, any females of this age.

H. H. McINTYRE.

Sworn to and subscribed at Randolph, Vt., this 28th day of July, A. D. 1892, before me.

[SEAL]

J. B. ELDREDGE,
Notary Public.

Deposition of Thomas F. Morgan, sealer on Pribilof Islands in 1868 and 1869, and agent of lessees from 1874 to 1887.

PRIBILOF ISLAND ROOKERIES.

DISTRICT OF COLUMBIA,

City of Washington, ss :

Thomas F. Morgan, being duly sworn, says: I am 44 years of age, and reside in the town of Groton, Conn. In 1886 I shipped as second mate of the bark *Peru*, owned by the firm of Williams & Haven, of the city of New London, Conn., ^{Experience.} which vessel was commanded by my father, Capt. Ebenezer Morgan, and sailed on that bark from Honolulu about the 27th day of February, 1868, for the purpose of catching seals on the islands in Bering Sea, Williams & Haven having for many years been engaged in seal fisheries, and being, so far as I know, the largest firm in the United States engaged in that business. We sailed to the port of Sitka and there applied to the commander, Gen. Jefferson C. Davis, for permission to land the cargo of the bark on the Pribilof Islands and take seals on those islands. At the end of the season I remained on the island of St. Paul, one of the said Pribilof Islands, until August, 1869, as a representative of Williams & Haven's interest in and about said island. In the last-mentioned year I returned to this country, and, at the request of the Alaska Commercial Company, of which Williams & Haven were stockholders, I was employed in the year 1874 to return to the Pribilof Islands as a representative of said Alaska Commercial Company.

In pursuance of such request I returned to the island as agent of said last-mentioned company in charge of the island of St. George, which with the islands of St. Paul, Otter, and Walrus, constitute the group known as the Pribilof Islands. I arrived at said island sometime in May, 1874; took up my residence there, and remained in my capacity of agent in and about that island during each sealing season thereafter until the year 1887. That during the years 1868 and 1869, and from May to July, 1874, I was located on St. Paul Island, and also from July, 1882, to May, 1883; that during the remainder of the time I was upon said islands I was resident on St. George Island; that during my residence on said islands I examined frequently the breeding rook-

eries on the island where I then was located, and now recollect the condition of said rookeries, and the approximate area which each of them covered at different times during my experience on said islands; that I have carefully examined the lines drawn by H. H. McIntyre on exhibits signed by him and marked Exhibits A, B, C, D, E, F, and G, indicating the grounds covered by said rookeries on St. Paul Island in the year 1870, and the year 1882, and that the red line shows the approximate area so covered in 1869, and the blue line the approximate area so covered in 1882; that I have indicated to the best of my recollection the grounds covered by breeding rookeries on St. George Island in the year 1874, by a red line, and the grounds so covered in the year 1884 by a blue line, on the exhibits signed by me and marked Exhibits H, I, J, and K; that the grounds so indicated are practically correct and represent approximately the area covered by breeding seals on said St. George Island in said years of 1874 and 1884.

I further depose and say I have examined the charts of said St. Paul and St. George Islands, made as I am informed and believe by J. Stanley Brown; that to the best of my knowledge the spaces represented on said charts as grounds over which the bachelor seals have hauled at various times during my experience are practically correct.

THOMAS F. MORGAN.

Subscribed and sworn to before me this 5th day of April, 1892.

[SEAL.]

SEVELLON A. BROWN,

Notary Public in and for the District of Columbia, U. S. A.

Deposition of Thomas F. Morgan, agent of the lessees on the Pribilof Islands and of the lessees on the Commander Islands.

HABITS, MANAGEMENT, AND PELAGIC SEALING.

DISTRICT OF COLUMBIA,

City of Washington, ss:

Thomas F. Morgan, being duly sworn, says: I am 44 years of age, and reside in the town of Groton, Conn. In 1868 I shipped as second mate of the bark *Peru*, owned by the firm of Williams & Haven, of the city of New London, Conn., which vessel was commanded by my father, Capt. Ebenezer Morgan, and sailed on that bark from Honolulu about the 27th day of February, 1868, for the purpose of catching seals on the islands in Bering Sea, Williams & Haven having for many years been engaged in seal fisheries, and being, so far as I know, the largest firm in the United States engaged in that business. We sailed to the port of Sitka, and there applied to the commander, Gen. Jefferson C. Davis, for permission to land the cargo of the bark on the Pribilof Islands and take seals on those islands. At the end of the season I remained on the island of St. Paul, one of the said Pribilof Islands, until August, 1869, as a representative of Williams & Haven's interests in and about the said island. In the last mentioned year I returned to this country, and at the request of the Alaska Commercial Company, of which Williams & Haven were stockholders, I was employed in the year 1874 to

return to the Pribilof Islands as a representative of the said Alaska Commercial Company.

In pursuance of such request I returned to the islands as agent of said last-mentioned company in charge of the island of St. George, which with the islands of St. Paul, Otter, and Walrus, constitute the group known as the Pribilof Islands. I arrived at said island some time in May, 1874; took up my residence there and remained in my capacity of agent in and about that island during each sealing season thereafter until the year 1887. At the expiration of the sealing season of 1887, I returned to the United States, and in 1891 was engaged by the Russian Sealskin Company, of St. Petersburg, as chief agent of that company, to proceed to the islands of Komandorski, consisting of Copper and Bering Islands, commonly called the Commander Islands, which said company had a lease of the said Commander Islands as well as of the island of Tuleni or Robben, in the Okhotsk Sea, to kill seals and other fur-bearing animals on those islands on the payment of a royalty to the Russian Government. During the years above-mentioned I have superintended the killing of, on the average, 18,000 seals a year; and in the last year of my employment by the Russian Sealskin Company I killed or superintended the killing of 30,000 seals. The skinning, curing of skins, packing of skins, and shipping of the skins from the islands of all the seals the killing of which I superintended has been under my immediate supervision, and a considerable part of the work thereof has been done by me personally.

That during my employment on said Pribilof Islands I carefully studied the habits of the fur-seal and the statements hereafter made as to the habits of said animals are based on my own observation and also from the fact that these statements have been corroborated by natives and residents on said islands, whom I know to be familiar with every phase of seal life.

The Alaska fur-seal breeds, I am thoroughly convinced, only upon the Pribilof Islands; that I have been on the Alaska coast and also along the Aleutian Islands; that at no point have I ever observed seals to haul out on land except at the Pribilof Islands, nor have I been able to obtain any authentic information which causes me to believe such is the case.

Alaskan seal breeds and hauls up only on Pribilof Islands.

The Alaska fur-seal is migratory, leaving the Pribilof Islands in the early winter going southward into the Pacific and returning again in May, June, and July to said islands.

Migration.

I have observed certain bull seals return year after year to the same place on the rookeries, and I have been informed by natives, that have lived on the islands, that this is a well-known fact and has been observed by them so often that they stated it as an absolute fact.

I believe that the cause the seals chose these islands for their home is because of the isolation of these Pribilof Islands and because the climatic condition of said Pribilof Islands is particularly favorable to seal life. During the time the seals are upon land the weather is damp and cool, the islands being almost continually enveloped in fogs, the average temperature being about 41° F. during the summer.

Climate of islands.

The pup seals are born on the breeding rookeries on St. Paul and St. George islands during the months of June and July. When first born a pup can only live upon land, is not amphibious, and is unable to swim. If it is washed off into the sea by the surf it is drowned, as I have often seen. If a pup was

Pups not amphibious.

born in the water it could not possibly live and I have never heard of such a case. A further fact in this connection is that the females never come to the islands accompanied by a pup. After birth a pup at once begins to suckle its mother, who leaves its offspring only to go into the water for food, which I believe from my observation consists mainly of

Females feeding and food.

fish, squids, and crustaceans. In her search for food the female, in my opinion, goes 40 miles or even further from the islands. The pup does not appear to recognize its mother, attempting to draw milk from any cow it comes in contact with; but a mother will at once recognize her own pup and will allow no other to nurse her. This I know from often observing a cow fight off other pups, who approached her, and search out her own pup from among them, which I think she recognizes by its smell and its cry.

Cow suckles only her own pup.

When the pups are about six or eight weeks old they begin to herd together in groups called "pods;" these by degrees work down toward the shore and after several trials and failures at last find the use of their flippers and learn to swim; from this time, the 1st of August or thereabouts, the pup goes into the water at intervals, but remains most of the time on the rookeries until about November, the time which the pup spends in the water depending a great deal on the weather. Toward the first or middle of November the pups leave the islands; they instinctively turn southward toward the Aleutian Islands.

Pups paddling and learning to swim.

Migration.

The time of their departure depends a good deal on the state of the weather; if the winter is open, they may be found much later upon the islands and if particularly warm seals may be found during the whole winter upon and about the islands. Probably, too, they are induced to leave the islands in pursuit of food. In my opinion if the islands were a little warmer in winter and not surrounded by ice, the seals would remain there the year round, as they evidently consider the Pribilof Group their home.

From the islands the pup with his fellows goes southward, passing through the passes between the Aleutian Islands, and holds its course still south till lost sight of in the ocean. From this time until the herd re-appears off the Californian coast their course is a matter of belief; but from information of sea captains of coasting vessels who have sailed during the winter, seals during December and the first part of January are found heading southeastwardly toward the Californian coast. In January and February they begin to appear along that coast; then turning northward they proceed along the coast, reaching Vancouver Island about March, the Southern Alaska coast in April and May, and in June the herd reënters Bering Sea and proceeds again to their island home. It is impossible to state the course or exact time of migration with complete accuracy, but this course here designated I believe to be approximately correct.

Appearance off California coast.

The pups which left the island the year before have now become "yearlings," the males and females herding together indiscriminately and not coming on shore until some time in August or September; they also leave the islands a little earlier than the first year and make the same course of migration as before.

Yearlings.

On their second return to the island as "two-year-olds" the sexes separate, the females going on the breeding rookeries where they are fertilized by the bulls, and the males hauling up with the nonbreeding males, called "bachelors," on the so-called "hauling grounds." The "two-

Two-year-olds.

Bachelors.

year-olds" again migrate southward over the same course as formerly. On their return to the islands, the female goes again to the breeding rookeries and there brings forth her first pup. From this time forward she increases the seal herd by one pup annually and the male of the same age is on the hauling grounds and is now considered of a killable age.

The fourth and fifth migrations are practically the same as the third. After the fifth or sixth migration the male seal, now Bulls. called a bull, returns to the islands about the first of

May and hauls up on the breeding rookeries provided he is able to maintain himself there, which takes many bloody conflicts. There he gathers about him as many females as he is able. From the time of his landing until the close of the rutting season or about the first of August he remains continuously on the breeding grounds, never eating and sleeping very little, if at all. About August first he again takes to the water, after having fertilized all the cows in his harem, very lean and lank, and his harem becomes disorganized, the pups gathering into pods, the females going and coming from the water, and the bachelors mingling with the cows and pups.

The bachelors while on the islands, in my opinion, feed very little, and practically it is only the female seals which feed while located on the islands. The speed of a seal when Only females leave islands to feed. swimming is very great, covering, I should say, from 10 Speed in swimming. to 15 miles an hour. Therefore a female can easily go to the feeding grounds and return to the islands in a day; and that so far as I am able to ascertain the foregoing facts are practically corroborated by all those who have had the opportunity to study or observe seal life on the Pribilof Islands and in Bering Sea.

On my first arrival in the Pribilof Islands in 1868, several other vessels, representatives of different interests, were there for the purpose of killing seals; and the natives of these islands, called Aleuts, were nearly all employed by one or other of the vessels in the business of killing seals. I noticed that the natives always remonstrated whenever any female was killed and stated that that was Natives opposed to killing females. forbidden, and I am informed that it always had been forbidden by the Russian Government. All the seals killed by me or under my superintendence on the island have been male seals, except in the case of accident. My knowledge of the catch of 1868 enables me to state that the destruction of seals from all sources in Slaughter of 1868. that year was about 240,000. This is the maximum figure. Despite the lowering of the standard weight of skins, care was taken annually on St. George that the residue of available male breeders was sufficient for the needs of the rookeries, and instructions to that effect were given to the assistants by the superintendent of the Alaska Commercial Company. In this we were aided by the inaccessible character of some of the hauling grounds.

From the year 1874 till 1885 we were able to get from St. George and St. Paul islands 100,000 male seals within the period known as the sealing season of six weeks, from the 10th Quota taken in 1874-1885. of June to the 1st of August, and still leave a large percentage of marketable seals. In 1885, and in every year thereafter until I left in 1887, there was a marked decrease in the number of marketable skins that could be obtained in Decrease. each year during the sealing season. We were able, down to the last year (1887) to get our total catch of 100,000 seals, but in order to get that number we had to take what in previous years we would have re-

jected, namely, undersized skins, *i. e.*, the skins of young seals. Prior to 1887 we had endeavored to take no skins weighing less than 8 pounds, but in order to make up our quota in the last-mentioned year we had to take skins weighing as little as 6½ pounds to the number of several thousand.

Taking smaller skins to complete quota.

In the years 1885, 1886, and 1887, my attention was attracted not only to a diminution in the number of killable seals appearing on the island but to a decrease in the females as well. Up to the year 1884, the breeding space in the rookeries had increased, and from that year down to 1887, when I left the island, the acreage covered by the rookeries which were occupied by seals constantly diminished. Naturally the cause of this diminution was a matter of interest and inquiry.

Decrease since 1885.

Increase of breeding grounds up to 1884.

It was not evident that it was from causes incident to the taking of seals upon the island. The greatest care was exercised in the driving; under precisely similar conditions the herd had increased in former years; the number of skins originally apportioned to St. George Island were reduced at an early date, and only increased in proportion to the rookeries' expansion. No disturbance of the rookeries was permitted, even the presence of dogs and use of firearms being prohibited during the presence of the seals. But facts came under my observation that soon led me to what I believe to be the true cause of destruction. For instance, during the period of my residence on St. George Island, down to the year 1884, there were always a number of dead pups, the number of which I can not give exactly, as it varied from year to year, and was dependent upon accidents or the destructiveness of storms. Young seals do not know how to swim from birth, nor do they learn how for six weeks or two months after birth, and therefore are at the mercy of the waves during stormy weather. But from the year 1884 down to the period when I left St. George Island, there was a marked increase in the number of dead pup seals, amounting, perhaps, to a trebling of the numbers observed in former years, so that I would estimate the number of dead pups in the year 1887 at about five or seven thousand as a maximum.

Driving.

Dead pups.

I also noticed during my last two or three years, among the number of dead pups, an increase of at least 70 per cent of those which were emaciated and poor, and in my judgment they died from want of nourishment, their mothers having been killed while away from the island feeding, because it is a fact that pups drowned or killed by accidents were almost invariably fat. Learning further, through the London sales, of the increase in the pelagic sealing, it became my firm conviction that the constant increase in the number of dead pups and the decrease in the number of marketable seals and breeding females found on the islands during the years 1885, 1886, and 1887 were caused by the destruction of female seals in the open sea, either before or after giving birth to the pups. The mother seals go to feeding grounds distant from the islands, and I can only account for the number of starved pups by supposing that their mothers are killed while feeding.

Killing of mother seals while feeding.

As I understand the fact to be, most of the seals killed in the open sea are females. My reason for this conclusion are (1) that from my knowledge of the seal, I know that the female when heavy with young, as they are during the early part of the season when on their way to the rookeries where they are delivered during the months of June and July, are much heavier in

Most of seals killed in sea are females.

the water and much less able to escape, because they are capable of remaining under water to escape for a very much less period of time than when they are not heavy with young, or than the male seal would be; and (2) because I have personally inspected skins taken upon the three schooners *Onward*, *Caroline*, and *Thornton*, which skins taken in Bering Sea were landed in Unalaska and were then personally inspected by me in the month of May, 1887. The total number of skins so examined by me was about 2,000, and of that number at least 80 per cent were the skins of females. I have also examined the skins taken by the United States revenue cutter *Rush* from one of the North Pacific Islands, where they had been deposited by what is known as a poaching schooner and taken to Unalaska, which numbered about 400 skins, and of that 400 skins at least 80 per cent were the skins of female seals. I have also examined the skins seized from the *James Hamilton Lewis* in the year 1891, by the Russian gunboat *Aleute*, numbering 416, of which at least 90 per cent were the skins of female seals, and from my long observation of seals and seal skins, I am able to tell the difference between the skin of a male and the skin of a female seal.

Examination of catch of the *Onward*, *Caroline*, and *Thornton*.

James Hamilton Lewis seized in 1891.

From my knowledge of the aquatic habits of the seal and the difficulty of accurate shooting when the object is in the water, I am of the opinion that a large number of seals are also killed by vessels engaged in the business of taking seals in the open seas, which are not caught. I am unable to form any estimate of the number of seals shot or speared from vessels, which are lost, but in the last two or three years of my residence at St. George Island, in taking 15,000 seals, I found, approximately, 3 pounds of lead, in the form of slugs, bullets, and buckshot, which I personally took from the bodies of male seals, some of which were so badly wounded that they would have died; and I have personally examined the log of the schooner *Angel Dollie*, in which it was stated that the hunters from that vessel got about one seal out of every ten seals shot at; also that on one occasion they fired 250 rounds and got 20 seals; on another occasion 100 cartridges and got 6 seals; and which log also stated that the captain personally shot and killed 7 seals of which he got only one.

Waste of life.

Deponent further says that he thinks that the decrease in the number of seals found in the rookeries and the increase in the number of dead pups are caused directly by the open-sea sealing commonly called poaching and that the prohibition of such poaching is necessary to the preservation of the herds, and that from what he has himself seen he thinks, if such poaching be not prohibited the herds will be practically exterminated within five years. One cause of destruction is raiding, which has been done upon the shores of the islands.

Protection necessary.

Raiding.

A half dozen such raids are known to me personally; but, while it is not possible for me to state with certainty the skins actually secured by such raids, I believe that, although such raiding is detrimental, its injurious effect as compared with the disastrous results of pelagic sealing is insignificant.

THOMAS F. MORGAN.

Subscribed and sworn to before me this 5th day of April, 1892.

[L. S.]

SEVELLON A. BROWN,

Notary Public in and for the District of Columbia, U. S. A.

Deposition of John M. Morton, agent of the lessees and Treasury agent on the Pribilof Islands.

HABITS.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

John M. Morton, having been duly sworn, deposes and says: I am United States shipping commissioner at San Francisco. The Alaska Commercial Company obtained the lease of the seal islands in 1870. In

Experience.

the fall of that year I went to Alaska on the steamer *Constantine* as an agent of said company, arriving at St.

Paul Island in October, where I remained until the close of the sealing season in the following year. During the summer of 1872, I visited all of the trading posts of the company, both on the mainland of Alaska and the various islands, thus spending the entire summer in Bering Sea. This trip was extended to Copper and Bering islands, belonging to the Russians, and of which members of the Alaska Commercial Company had control at that time, and to Petropaulovski in Kamelatkka. In the course of our voyage in 1872, we touched twice at the seal islands of Alaska, spending there altogether, perhaps, a week or ten days. During our stay at St. Paul this year, I visited (in July) most of the rookeries and hauling grounds of the fur-seals.

The summer of 1873 I spent on St. George, and while there my business called me frequently to the various portions of the island where the seals were accustomed to congregate. I did not go to Alaska in 1874, but in 1875 and again in 1876 I went north, spending both seasons on St. Paul Island. I resigned my position with the Alaska Commercial Company in the fall of 1876, but in the spring of 1877 I was appointed to the position of Treasury agent at the seal islands (in charge), and entered upon the discharge of my official duties in May of that year. During my residence on the island, which, so far as the sealing seasons were concerned, practically covered a period of eight years (from 1870 to 1878 inclusive), I obtained a full knowledge of the sealing business in its various branches, and became familiar with all of the grounds occupied by the fur seals.

I was at all times greatly interested in observing the movements and habits of these animals and scarcely a day passed that I did not visit one or more of the rookeries. During the seasons of 1877 and 1878, while serving in the capacity of special Treasury agent, I devoted my best attention and study to this subject. It may be said in the start that the grounds held by the fur-seals are known at the islands as

"rookeries" and "hauling grounds." On the former are found the breeding seals, viz, the full-grown males not less than six years of age, and females of three years old and upwards. The grounds comprising the

Rookeries and hauling grounds, description of.

rookeries slope upward from the sea in a gradual and easy manner, and are characterized by hard dry surfaces of volcanic cement or basaltic rock. They are readily accessible from the water and possess other favorable conditions for occupancy by the seal life.

The first arrivals of seals at the islands usually take place early in May.

Arrival of bulls.

These are of the class of large bulls which occupy positions on the rookeries. The females, as a class, begin

to appear in June, and by the middle of July the whole of the vast

Arrival of cows.

herd may be said to have arrived and established itself. The females soon after their arrival give birth to their

young and are limited, so far as I have been able to observe from long and close observation of the rookeries during the breeding season, to a single "pup."

Cows uniparous.

The statement that the fur-seal may bear and rear its young at sea as well as on land is, in my opinion, wholly gratuitous.

I am unable to conceive of any ground whatever upon which to base such an assertion.

Pelagic birth impossible.

When born the "pup" is an exceedingly stupid animal, with an abnormal development of head, and is apparently incapable of any exertion, except in the way of exercising its lungs. At this time it is certainly not an amphibious animal, for it does not attempt to approach the water for a month or two after its birth, and in its first natatorial efforts not only does it seem to require instruction from the older seals, but considerable practice is also necessary in the shallow waters

Pups learning to swim.

along the beaches before it dares to venture away from the shore and among the turbulent waves of Bering Sea. In my opinion, the seal "pup" when its first introduction to the world takes place at sea must inevitably perish. Assuming that it might float on the surface of the water for a while, what is to become of it during the long voyages the mother must now make in search of nourishment for it and herself? The supposition that it would be able to accompany her on such journeys is equally as absurd as the idea of its being left unprotected on the surface of a stormy sea while awaiting her return.

I desire also to express my belief concerning the seal life that the act of copulation can not be successfully performed in the water. Those who have witnessed its accomplishment on the rookeries must coincide with such opinion.

Copulation in the water impossible.

A firm foundation for the support of the animals, which the ground supplies, and the water does not, is indispensable to oppose the pushing motion and forceful action of the posterior parts of the male which he exerts during coition. The closest observation which I have been able to give to the movements and habits of the seals in the water has furnished no evidence to controvert the above opinion.

The rutting season among the seals continues through the months of June and July and into the early part of August, and upon its subsidence the rookery bulls, after their long

Rutting season.

fasting of two or three months, after many sanguinary battles, worn, starved, and emaciated, return to the water. Younger males now make their appearance on the rookeries, coming and going at will; and now thousands and tens of thousands of "pups," "podded" together near the beaches or plunging and rolling in the surf, may be seen. By the middle of September the systematic organization of the rookeries is entirely broken up, and the major part of the seals have left the land. The seal life seems reluctant to depart from the islands,

Migration.

and does not entirely disappear before December or January; while indeed, if the winter be an open and mild one, some of the old males will not depart at all. The seals are undoubtedly driven from the islands by the severe winter climate of Bering Sea and the necessity of seeking food. Were it not for these facts, I should be unable to conceive of any reason for their migration.

The rookeries are covered by the breeding seals in a very compact and regular manner. There is no evidence of crowding or bunching in one place, or scattering in another, and apparently no spaces within their limits, suitable for occupancy, which are not covered. It is evident from this system-

Appearance of the rookeries.

atic arrangement and distribution that any expansion or contraction which may take place of the rookery boundaries must show a corresponding increase or diminution of their population; and further, that as the rookeries enlarge or diminish so in a like ratio will the general body of the seal life be affected. By careful and intelligent study, then, of the breeding grounds, any material changes which may take place from year to year in the numerical condition of the seal life on the two islands may be determined. I may state that the sum of my observations in the above relation on the Pribiloff Islands at the

Increase between
1870 and 1878.

close of the season of 1878 clearly indicated that since 1870 the rookeries had increased in an appreciable manner, and I may add that such was the opinion of

everybody on the islands who had given the subject any careful study. During the years I have mentioned, to wit, from 1870 to 1878, inclusive, the stock of killable seals was always more than sufficient to meet the annual demands made upon it by the lessees and still leave in reserve a proper supply of males for future use on the rookeries.

The slaughter of animals for their skins was always conducted carefully and systematically, and in accordance with wise

Killing.

regulations looking to the proper protection and conservation of the seal life. The killing of females was prohibited, and, fortunately, a strict adherence to the law in this respect was entirely practicable by reason of the fact that the "bachelors" or killable seals occupy positions on the islands separate and apart from the breeding animals, so that the latter were never disturbed in the drove." There

Driving.

were often driven to the killing grounds at the same time as many as two or three thousand seals, from which were selected without difficulty such animals as were suitable for slaughter, while all others were allowed to return to the water. Females might occasionally appear in the drove, but their presence was generally known and none were killed except by accident, which occurred very rarely.

Females killed only
by accident.

In the matter of driving, great care was exercised to prevent overheating and exhaustion on the road, and the loss of animals in this respect was very slight. I may state

No injury to the
seals from driving.

here that I have never seen any evidence that the seals derived any material injury from their overland trip to the killing grounds. It has, I believe, been claimed by some one writing on the subject, that the large seals which have been thus driven, and subsequently in the culling-out process dismissed from the herd and permitted to return to the water, suffer a loss of virility or the power of procreation by their journey. Such statement seems to me to be puerile and altogether unworthy of serious consideration. As I have said, the driving was done carefully and without undue haste, and while an animal might occasionally succumb to the heat of an unusually warm day, as a rule the physical exertion called for on the part of the seals on these enforced journeys was not greater than they customarily put forth in their voluntary ramblings over the dunes and rocks of the islands. Indeed, the mortality among the seal life from whatsoever cause, outside of that incident to the killing of the animals for their skins, was always surprisingly small, and could not have affected the rookeries in any appreciable manner.

The seals are never visited by physical disorders of any kind, so far as I could ascertain, and I have never seen on their bodies any blemishes, humors or eruptions which might be attributed to disease.

No diseases among
seals.

I am informed that of late years thousands of young pups have died on the islands while the season was in progress. Certainly such condition did not exist during my residence on the Pribilof group. The "pups" were sometimes trampled upon by the larger animals, and dead ones might be seen here and there on the rookeries but the loss in this particular was never large enough or important enough to excite any special comment.

Dead pups.

I have already stated that my personal observation and investigation of the conditions at the islands from 1870 to 1878, inclusive, showed that during those years a steady expansion of the breeding rookeries took place. I am also informed and believe that such expansion continued up to the year 1882 or 1883. During this period of general increase it is notable that the destruction of animals from pelagic sealing was comparatively unimportant. But a few vessels up to this time had made predatory excursions in Bering Sea, and the number of seals obtained by them is known to have been small. Since 1883, however, there is said to have occurred a very material diminution of the seal life on the Pribilof Islands, due, as it is claimed, to a large and indiscriminate slaughter of these animals in the waters of Bering Sea and the Pacific Ocean. The cause assigned for this loss is undoubtedly the true one. If no other proof were forthcoming in relation to it the large display of dead pups on the rookeries would in itself furnish all the evidence required. Such diminution could not, in my opinion, be the result of the ordinary yearly slaughter for skins. It is shown that an appreciable expansion of the rookeries took place after twelve or fourteen years of such slaughter, and I think this fact conclusively demonstrates that the number of seals which the law permitted to be killed each year was not greater than the known conditions of the seal's life would safely warrant.

Expansion of rookeries from 1870 to 1883.

Beginning of pelagic sealing.

Decrease.

Pelagic sealing the cause.

The business of pelagic sealing, if permitted to be carried on in the northern waters, must soon result in the extermination of the seal life and the destruction of a great and valuable industry. It must produce untold poverty and distress among the native people of the seal islands, and in various adverse ways affect the material interests of other Alaska settlements and communities.

Prohibition necessary.

Effect of unrestricted pelagic sealing.

I believe the American Government to be justified in assuming and maintaining the absolute proprietorship of the American seals. They may, I think, in the broad sense of the word, be regarded as domestic animals. They certainly possess qualities of a domestic nature which are susceptible of a high degree of development. During the first two or three months of their lives they are as gentle and docile as most domestic animals. They may be handled and petted, will accept food at one's hands, can be taught to follow one from place to place, and in various ways are amenable to intelligent guidance and training. Even at mature age they are subject to as much control as are sheep or cattle. They may be driven here and there at will; may be separated and driven together again; divided into groups or "pods," great or small, or be herded by thousands with less effort and trouble than bands of cattle are herded on the plains. They are far from possessing that excessive timidity which has been popularly attributed to them. They soon grow accustomed to the sight of man,

American ownership of seals.

Domestic nature of seals.

and in the absence of offensive demonstration on his part quickly learn to regard his proximity with indifference. At no time can they be called aggressive animals, but if suddenly attacked and their escape

Courage of bulls. shut off, they will snap and bite viciously. The rookery bull will defend his harem valiently, and nothing less than superior physical force on the part of his adversary can dispossess him. To test his courage in this respect I have occasionally attacked him with clubs and stones, and, though his family were driven off or deserted him, he still held his ground and successfully resisted my utmost efforts to expel him from the rookery.

Upon their return to the islands in the spring the seals approach the land confidently and their occupancy of the rookeries is regular and systematic. That the male seal returns year by year to the same familiar spot or ground on the rookeries, when it is possible for him to do so, appears to be probable. I have seen this fact demonstrated in certain instances without any possibility of error; and when this is considered, and his well-known systematic and methodic habits are taken into consideration, the theory that such is the prevailing practice, at least among the rookery bulls, seems a most natural and plausible one.

Bulls return to same spot. It is now well established that, outside of the Pribilof group, there are no other islands or grounds in northwest America where the seals haul up for breeding purposes. These islands are their natural and permanent home, without which they could not exist. They leave it only when necessity demands and return to it as soon as the climatic conditions make it possible for them to do so. Here they find that protection and supervision indispensable to the reproduction of their kind and the multiplication of their numbers.

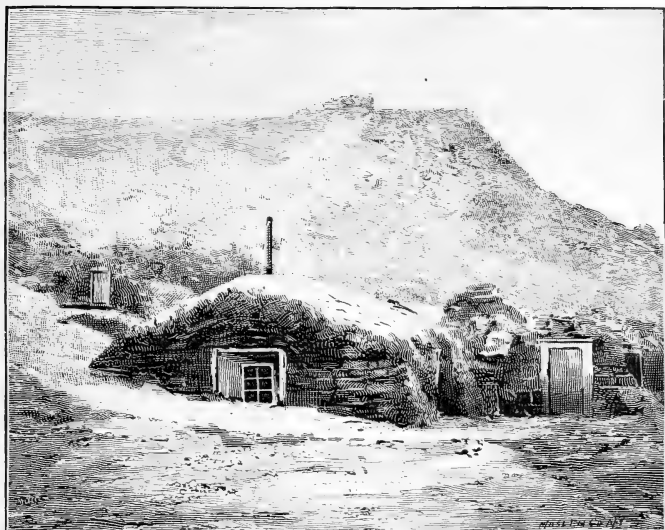
Seals haul up only on the islands. During my residence on the islands the native inhabitants were prosperous and contented. The profits resulting from the labor of killing the seals and salting and shipping the skins were not only ample to supply them with the needs of life, but with many of its luxuries. Those who were careful and provident in the matter of their earnings were enabled to and did deposit some portion each year of the same with the Alaska Commercial Company or in the banks of San Francisco.

Condition of natives. The company furnished to each native family, without charge, a comfortable frame dwelling, employed a physician on each island, and supplied medicines and medical attendance gratuitously. It may be said, perhaps, that it was plainly in the interest of the company to faithfully carry out all of its obligations designated or implied by the terms of its lease. Such was undoubtedly the fact, but, in justice to the lessees, it should be stated that they always interpreted their contracts in a most liberal spirit, and in many ways exceeded their obligations as far as their treatment of the native people was concerned.

J. M. MORTON.

Subscribed and sworn to before me this 11th day of May, A. D. 1892.
[L. S.]

CLEMENT BENNETT,
Notary Public.



OLD NATIVE HUTS.

Deposition of Jacob H. Moulton, assistant Treasury agent on the Pribilof Islands.

MANAGEMENT, HABITS, AND PELAGIC SEALING.

DISTRICT OF COLUMBIA,

City of Washington, ss:

Jacob H. Moulton, of Bowdoinham, Me., being duly sworn, deposes and says: I am 56 years of age, and my occupation is farming. From 1877 to 1885 I was first assistant Treasury agent on the seal islands. I arrived on St. Experience.

George Island May 21, 1877, and left the islands in the fall of 1884. I spent four summers on St. George Island, and one winter, from 1877 to 1881, and four summers and four winters on St. Paul Island, from 1881 to 1884. Each season I made careful examination of the rookeries on the island where I then was located, in connection with my official duties, and I also made some study of the life and habits of the seal.

While I was on St. George Island there was a perceptible increase in the number of seals, there being more in 1881 than at any time previous while I was there. Increase on St. George Island from 1877 to 1881.

While on St. Paul Island I do not think the number of seals increased, and in the last year (1884) I think there was a slight decrease. During these years there was always a sufficiency of male seals for breeding purposes, and in every year I saw great numbers of idle, vigorous bulls about and back of the breeding grounds, which were unable to obtain females. Decrease on St. Paul Island in 1884. Sufficiency of bulls.

I believe that it is utterly impossible to even approximately estimate the number of seals which resort to these islands. I do not mean that it is impossible to measure the breeding rookeries, for that can be done by the use of surveyors' instruments with practical accuracy, but after the measurements are made, it is impossible to estimate the number of seals contained in these areas, the ground being covered with broken rocks of all sizes, some weighing over a ton, between which the seals lie, so that where the large rocks are not so thick there will be a greater number of seals; thus all over the rookeries the density of seal life varies, and besides this the seals are constantly in motion, the females coming from and going to the water. I do not believe any estimate of the number of seals on the islands heretofore made can be relied upon at all, as there may in reality be twice as many seals as estimated, or half as many. Impossible to estimate number of seals resorting to islands.

But it is possible to determine by close observation from year to year whether the seals are increasing or decreasing, because the seals crowd together in the same manner, whether there are a few or a great number, and as they increase the rookeries necessarily extend. Possible to determine an increase or decrease.

While on St. George Island there were practically no dead pups on the rookeries. I do not think I saw during any one season more than a dozen. On St. Paul Island I never Dead pups.

saw any dead pups to amount to anything until 1884, and then the number was quite noticeable. These latter pups I examined, and they seemed to be very much emaciated. In my opinion they died of starvation, caused by the mothers having been shot while absent from the islands feeding. Another cause of their starving is because a cow refuses to give suck to any pup but her own, and she recognizes her offspring by its cry, distinguishing its voice from that of hundreds of others which are con- Cow nurses only her own pup.

stantly bleating. The pup, however, seems to make no distinction between the cows, endeavoring to nurse from any which come near it. Then, too, a pup is not weaned till it is four or more months old,

depending entirely on its mother for sustenance. For the first six or eight weeks of its life a pup is a land animal, having a coarse hair, but no fur. This coarse hair is shed before the fur appears. A pup is also unable to swim, and I have seen pups thrown in the water when their heads would immediately go under and they would inevitably drown if not rescued.

There is no doubt that a seal born in the water would at once perish. Another point that shows a pup is a land animal during the first weeks of its existence is that it uses its hind flippers as feet, running on them in much the same manner as other land animals, while a seal that has learned to swim drags his hind flippers, using his front flippers to pull himself along.

While on the islands I observed with great care the manner of driving and handling the young male seals allowed by law to be killed for their skins, and I am convinced the methods now in use on the islands can not be improved upon, and especially because all the driving is done by the natives, who from generation to generation have made this their only business, being trained up to it from boyhood. Every precaution is taken in driving not to overheat or weary the seals, frequent rests being had, and a "drive" never being undertaken when the sun was shining; if the sun came out unexpectedly during a "drive," the animals were at once allowed to return to the water. No female is ever killed, and it is very seldom a female is driven. Very few seals die during a "drive," amounting to a very small fraction of 1 per cent of those driven, and in nine cases out of ten of those accidentally killed in this way the skins are saved. I never saw or heard of a seal being injured seriously by driving or re-driving. I have seen the hind flippers in a few instances a little sore, but never in all my experience have I seen an old sore on a seal. I am positive the reproductive organs of every one of the hundreds of thousands of seals I have seen driven were uninjured by their movements on land, and I am further convinced this must be so from the fact that a seal when moving on land raises himself slightly on the hind flippers, so that his reproductive organs are clear of the ground. Even if a seal was driven twelve successive days for the average distance between a hauling ground and a killing ground, I do not believe its virility would be at all impaired.

While I was on the islands I am convinced that the propagation of seal life was never affected in the slightest degree by re-driving or overdriving. The killing grounds were near the water, so that the seals let go from the killing could easily return to that element, and these killing grounds were established as near the hauling grounds as it was possible to do, without having the odor from the carcasses disturb the breeding seals. Teams and boats were also used to transport the skins to the salt houses, so that the killing grounds could be located much nearer the hauling grounds than before this means of transportation was provided.

There were only, as I recollect, four raids on the islands while I was there; but little or no damage was done, and seal life was not perceptibly affected by such mauling. I believe, to avoid certain extermination of the Pribilof seal herd in the

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There were only, as I recollect, four raids on the islands while I was there; but little or no damage was done, and seal life was not perceptibly affected by such mauling. I believe, to avoid certain extermination of the Pribilof seal herd in the

near future, that they must be protected in Bering Sea and in the North Pacific Ocean. Pelagic sealing must be absolutely prohibited, because the majority of seals killed in this way are pregnant or milking females, and this is certain to cause extinction of the species very soon, if continued. If pelagic sealing is stopped, and the present regulations enforced on the islands, the seal herd will slowly but surely increase again, as they did before pelagic sealing had grown to such proportions as to affect seal life.

J. H. MOULTON.

Subscribed and sworn to before me, a notary public in and for the District of Columbia, U. S. A., this 16th day of April, 1892.

[L. S.]

SEVELLON A. BROWN.

Deposition of Joseph Murray, Treasury agent on the Pribilof Islands.

DECREASE OF HERD.

Joseph Murray, being duly sworn, deposes and says: I reside at Fort Collins, Colo.; I am 49 years of age, and I am the first assistant special agent at the seal islands in Bering Sea. That in pursuance of Department instructions to me, dated April 20, 1889, I proceeded to the seal islands and landed on St. George Island May 31, 1889. That I had charge of that island until July 1, 1890, and I was present during the whole of two sealing seasons on the island of St. George.

That my attention was called to the decrease of seals and the depletion of the rookeries at an early date after my arrival, and that I attempted to study the habits and conditions and to note the numbers of seal on the several rookeries and hauling grounds, and that the natives and employes of the Alaska Commercial Company were unanimous in their opinions that the seal had been decreasing steadily and rapidly since 1884, and I reported the fact to Agent Goff, who had found similar conditions existing on St. Paul, and he so reported to the Department and suggested that not more than 60,000 seals should be taken in any one season in future.

In pursuance of instructions from Agent Goff I left St. George Island on the 19th of July, 1890, and landed on St. Paul Island on the 20th of the same month, and remained there until August, 1891. During the month of July, 1890, I walked over the rookeries and hauling grounds of St. Paul Island and Agent Goff pointed out to me the lines to which in former years the seals hauled and the large areas which they covered; and then he called my attention to the small strip covered by seals on that date, which was smaller than the year previous.

Agent Goff stopped the killing of seals by the lessees on and after the 20th of July, 1890, because of the depleted condition of the hauling grounds; and I fully concurred in his order and action. I spent the sealing season of 1891 on St. Paul Island, and pursuant to instructions of Agent Williams, I gave my time and special attention to the study of the condition of the rookeries, both the breeding and grounds. I visited the rookeries daily from the 7th to the 22d of July—during the period when the rook-

Prohibition necessary.

Experience.

Decrease since 1884.

Suggested diminution of lessees' quota

Diminished area of rookeries on St. Paul Island.

Killing by lessees stopped.

eries are fullest and at their best—and I carefully noted their condition and the number of seals; the number of cows to the family, and the number of idle, vigorous bulls upon each rookery.

From the experience gained and observations made during three killing seasons, from the information gleaned from men who have devoted their lives to the practical side of the seal question, and from the books and reports in the Government offices on the islands, I am able

Cause of decrease. to say that, in my opinion, there is only one great cause of the decrease of the fur-seal, and that is the killing of the females by pelagic hunting. During my observations in 1890, I was led to believe that the decrease was partly due to the lack of bulls on the breeding rookeries, and I so reported to Agent Goff; but after thoroughly investigating the subject the next year by daily visits to the breeding grounds of the several rookeries, where I saw nearly every cow with a pup by her side; and hundreds of vigorous bulls without

No scarcity of bulls. any cows, I came to the conclusion that there was no truth in the theory, and that it was the cows that were scarce and steadily decreasing. Had I had a doubt, it would have been dispelled when I was informed that the combined

Poachers warned out of sea.

fleets had warned ninety-one poaching schooners out of Bering Sea before August 25, 1891, and that each of the schooners had sealskins on board, which, in the aggregate, numbered about 30,000, of which 90 per cent were found to be females. On the 19th of August, 1891, I saw the young pups lying dead upon the rookeries of

Ninety per cent of skins on board females.

St. Paul, and I estimated their number to be not less than 30,000; and they had died from starvation, their mothers having been killed at the feeding grounds by pelagic hunters.

Dead pups.

JOSEPH MURRAY.

DISTRICT OF COLUMBIA,

City of Washington, ss:

Subscribed and sworn to before me this 19th day of March, 1892.

CHAS. L. HUGHES,
Notary Public.

Deposition of S. R. Nettleton, Treasury agent on the Pribilof Islands.

HABITS; PELAGIC SEALING.

S. R. Nettleton, being first duly sworn, deposes as follows: My place of residence since May, 1891, has been Seattle, Washington. For a period of nineteen years prior to that date I was a resident of the State of Minnesota. My occupation was that of a real estate and investment broker. In the autumn of 1889 I went to the island of St. Paul, one of the Pribilof group, as a special agent of the Treasury Department. In August, 1890, I returned to the States and stayed until the spring of 1891, when I returned to said island of St. Paul. I remained there during the months of June and July of that year, and was then transferred to the island of St. George, where I remained until June, 1892.

Experience. In discharge of my duties as Treasury agent I made such observations as could be taken from the breeding rookeries and hauling grounds on the islands, and in the waters immediately adjacent thereto, and which enable me to make the follow-

ing statement of facts; and from personal observation as well as information received from the native inhabitants of said islands, and white men resident thereon, I have formed the opinions herein expressed, based upon information and belief:

The Pribilof Islands, by reason of their isolated location, cool and humid climate, rocky shores, and the fog which prevails from early spring until late autumn, are peculiarly well fitted to be the home of the fur-seal. Climatic features of islands.

I do not know by what instinct they were led to this remote region to which they yearly return. The bulls begin to arrive upon the breeding rookeries about the 1st to the 10th of May; they then select their locations, which they hold during the season. During the latter part of June and the early part of July the cows begin to arrive heavy with young, of which they are delivered, usually, forty-eight hours after their arrival. Arrival of bulls.

In about the same length of time after the birth of their one pup they have coition with the male, upon the rookeries, and then return to the water to feed. The bull—the lord of the harem—remains on the rookery during the entire season of about four months, protecting the young and preventing the invasion of his domain by neighboring bulls and from the young and vigorous bachelors who have not yet reached the age and condition of strength to enable them to cope successfully with the older males, who, by reason of their superior strength, are able to hold their position against all comers. Arrival of cows.

During my stay on the islands I have never seen a time during the breeding season when there has not been a number of large, vigorous young bulls hanging about the borders of the rookeries watching for an opportunity to get a position of their own. Life on rookeries.

The pup when born is as helpless as a newborn lamb, and as incapable of living upon the water. It is not until six or eight weeks old that the pup of the fur-seal can swim. At that age they form themselves into "pods" and work themselves down to the water's edge; after several days of repeated trials and failures they finally learn to swim. Bulls vigorous.

If for any reason the cow should not be able to reach the rookery in time to give birth to her pup, and it should be born in the water the pup would of necessity be drowned. If, as is often the case, a pup should be swept from the rookery into the surf before it had learned to swim, it would be drowned. Every season young pups in more or less numbers are thus drowned. Pups learning to swim.

Referring to the question as to whether pelagic coition is possible, I have to say that I have never seen it attempted, but from my observations I have come to the conclusion that pelagic coition is a physical impossibility. Pups not born in water.

Upon my first visit to the rookeries and hauling grounds of the island of St. Paul, my attention was attracted to the evidences of recent and remote occupancy by the seals. Marked differences were noticeable in the appearance of vegetation on large areas formerly occupied as breeding and hauling grounds, while near the water's edge, more recently occupied, the ground was entirely bare of vegetation, enabling one to trace the gradual decrease of areas occupied during the last six to eight years. My examination of the rookeries on St. Paul and St. George during the years 1890-'91 and 1892 enabled me to trace the yearly decreasing area occupied by the No breeding in water.

Decrease.

fur-seals on these islands. Aside from the evidences of deserted rookeries and hauling grounds shown by the grounds themselves, I was shown by native inhabitants of each island the grounds occupied in former years now deserted and grass-grown. The silent witness of the

Rookeries deserted.

deserted rookeries bears out the testimony of the resident agents of the lessees of the islands, and of the native inhabitants of the islands, that the number of seals on the islands began to decrease with the advent of pelagic sealing, and that the yearly decrease has been in proportion with the yearly increase in the number of vessels engaged in that enterprise.

The result of my observations of the methods of driving the seals from the hauling grounds to the killing grounds is that

Driving.

a very small fraction of 1 per cent of the seals die from being overdriven or from being overheated in driving. From my personal knowledge of the number of seals killed upon the Pribilof

Raids unimportant.

Islands by raids upon the rookeries during my residence there, and from information gained through other sources, I conclude that the number of fur-seals killed is infinitely small compared with the number killed in pelagic sealing; so small, in fact, as to have no appreciable effect upon seal life upon the islands.

As one result of my study of seal life on the islands I have come to the conclusion that if pelagic sealing in Bering Sea

Extirpation from pelagic sealing.

and North Pacific should continue for a period of five years to the same extent as now practiced, seal life upon the Pribilof Islands will have become extinct.

S. R. NETTLETON.

On this 9th day of July, 1892, before me, A. T. McCargar, a notary public in and for the State of Washington, personally appeared S. R. Nettleton, to me personally known to be the individual who signed and sealed the above instrument as his voluntary act and deed.

Subscribed and sworn to before me on the date above mentioned.

[SEAL.]

A. T. MCCARGAR,

*Notary Public in and for the State of
Washington, residing at Seattle.*

Deposition of Gustave Niebaum, formerly an employé of the Russian American Company, and vice-president of the Alaska Commercial Company, etc.

MANAGEMENT ON PRIBILOF AND RUSSIAN ISLANDS.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Gustave Niebaum, having been duly sworn, deposes and says: I am

Experience.

50 years old, a resident of San Francisco, and a merchant and ship owner. I was born in Helsingfors, Finland, and became an American citizen by the transfer of Alaska to the United States. I entered the service of the Russian American Commercial Company in 1858, and was in command of one of their vessels from 1866 until the cession of Alaska to the United States. I am, and have been for several years past, vice-president and a director of the Alaska Commercial Company, and a member of the firm of Hutchinson, Kohl & Co., the former lessees, respectively, of the Alaska and Siberian sealeries.

In these various positions the care and management of seal rookeries and system and methods of killing seals and curing and transporting their skins to market has been my study. I visited the Pribilof Islands in 1867 and had charge of seal killing there in 1868 and 1869. When the Alaska Commercial Company obtained the lease in 1870, of the right to take seals for their skins, I instructed the superintendent and agents of the company in regard to the way in which the work had been done, and outlined to them the policy to be pursued in the future. The lease of the Alaska Commercial Company had twenty years to run, and it was for our interests that the very best methods should be adopted for managing not only the "bachelors," then ready for slaughter, but also the breeding herds upon which the future of our business depended. To this end I directed our superintendent of the sealeries to observe the greatest care in driving, handling, and killing the seals, cautioning him to allow nothing to be done that would in any way tend to alarm or disturb them, or in the least degree interfere with their already well-known orderly, regular habits of breeding and migration.

Directions to employés of lessees.

The instructions were explicit that no females should be killed, and, further, that bulls enough of mature age should be preserved to serve them. In order to see that these instructions were followed and the business put upon what I confidently believed to be the right basis, I visited the islands in 1871 and 1872 and again in 1877, and was more than satisfied with the result of my investigations. The work was being carried on at these times in a highly systematic, orderly manner, showing great improvements over the way of doing it under Russian régime, and the result of good management showed itself on every hand. The breeding rookeries had largely expanded in 1877 over the limits of 1869, as I personally observed and as I was informed by the Treasury agent in charge, by our superintendent, and by the native chiefs. The natives were enthusiastic in their praise of the American way of doing business and conducting sealing, as compared with what they had been accustomed to in former years.

Improved methods under American management.

Yet it required no very deep study nor occult knowledge to bring about the healthy growth of the seal rookeries. It was simply needed to treat them as our ordinary domestic animals are treated to produce the same result. The seals are polygamous, as our horses, cattle, and sheep are, and the best methods of breeding these is equally advantageous when applied to the seals. It is an indisputable fact, and known to the most ordinary breeder of domestic animals, that any surplus of males is a positive injury, and results in a progeny inferior in size, quality, and numbers produced. The fierce struggles of the surplus male seals to gain a foothold on the breeding grounds create great disorder and commotion, and often end in crushing the pups, and sometimes even in killing the mothers. This was so well understood by the Russians that long before the cession of Alaska they ordered the slaughter, we are told by Veniaminof, of the superannuated males, in order to clear the way for vigorous stock. They succeeded by this intelligent course in bringing up the rookeries from their depleted condition of about 1840, consequent upon the bad management of prior years, and the unpropitious season of 1835, when the ice nearly annihilated the seal life, to the productiveness in which we found them in 1868. We continued the same system, with slight modifications, and had every reason, up to 1882, to expect to be able to return the property to the United States

How the growth of the rookeries was procured.

at the expiration of our lease in better condition than when we received it. But a force was already gaining momentum long before we noticed any serious disturbance of the herd on the islands that was destined to disappoint our expectations, and, if not checked, to utterly destroy the commercial value of the sealeries.

The practice of pelagic seal hunting was followed by the northwest coast Indians from their earliest history, but amounted to so little as to be inappreciable on the islands. Even after white hunters engaged in it in a limited way our losses from this source were attributed to the marine

Results of pelagic sealing by northwest coast Indians inappreciable on islands.

enemies of the seals, and was so far overcome by the good management on the islands as to permit the growth of the herd to continue so long as it was limited to a few vessels and confined to the vicinity of the Oregon, Washington, and British Columbian coasts. But even before any considerable slaughter had taken place in the waters of Bering Sea, as early as 1882, it was noticed that the rookeries had stopped expanding, though they were treated in every way as they always had been. An examination of the London Catalogue of sealskin sales shows that the "Victoria catch" already aggregated a very considerable number of skins and now brings home the conviction that pelagic sealing, when confined almost wholly to the Pacific, is still a very dangerous enemy of seal life on the islands.

Expansion of rookeries ceased in 1882.

After 1886 the force of pelagic hunters was greatly augmented, and became more and more aggressive, and their field of operations widely extended, until they appeared in alarming numbers in Bering Sea in 1884 and 1885. In 1887 we were forced to commence taking smaller skins in order to obtain our quota and preserve enough breeding bulls. In 1888 they were still smaller, while in 1889 more than half of them were such as we would not have killed in former years, and we called the attention of the Treasury Department to the evident diminution of seal life, and recommended that fewer seals be killed in future. There can be no question as to the cause of the diminution. It is the direct result of pelagic sealing, and the same destruction, if continued a few years longer, will entirely dissipate any commercial value in the rookeries, if it does not, indeed, annihilate them.

Increase in pelagic sealing after 1886 and effect thereof.

I was formerly, as I have stated, interested in the Commander seal islands, as well as those of Alaska. The two herds are separate and distinct, the fur being of different quality and appearance. The two classes of skins have always been held at different values in the London market, the Alaskas bringing invariably a higher price than the Siberias of the same weight and size of skins. I think each herd keeps upon its own feeding grounds along the respective coasts they inhabit.

Russian and Alaskan herds distinct and fur of different qualities.

I am told that the diminution of seal life has been attributed to raids by poachers upon the seal islands. Very few of these have occurred, and the number of skins obtained by the poachers has been comparatively infinitesimally small. I think the whole number obtained by them in this way does not exceed 3,000 or 4,000 skins. We were accustomed always to maintain a patrol and guard upon the rookeries whenever the weather was such that poachers could land upon them, and upon the least suspicious circumstances measures were taken to forestall any attempts to steal the seals. The sea is usually rough in the fall when poachers try to get in their work; the shores are, at most places, inaccessible from boats, and the natives

Raids.

are vigilant and active. If marine hunting is stopped, they can be safely trusted to defend the property upon which their very existence is dependent, as they have done repeatedly, against any single schooner's crew.

It has been asserted in print that the Alaska Commercial Company is engaged in the business of pelagic seal hunting. It has been the custom of the company to vindicate its good name and title to respect by deeds rather than words, but an imputation upon its honor so absolutely groundless and unwarranted as this, it can not do less than deny. It is not, and never has been, nor have any of its officers or stockholders ever been directly or indirectly engaged in any manner whatever in pelagic seal hunting. It has always purchased from the natives such skins as they offered for sale, but when seal life grew scarcer on the islands it discouraged the natives by every means in its power from killing seals along the Alaska coast. To feel a present regret that this course was pursued in view of the destruction of the seal herd which the Government has permitted, would be but natural, yet we try, as honorable men, to rise above even this weakness.

Denies that Alaska Commercial Company is engaged in pelagic sealing.

I have shown that under good management the seals increased on the Pribilof group, and know such to be the fact also in regard to the Commander Islands. The methods were the same in the two places, but the Asiatic herd was not seriously molested at sea until 1890, and the increase continued up to that date. Now, pelagic hunting is going on there the same as in the Alaska waters, and already the herd is diminishing as did the Pribilof herd from the same cause several years earlier. The same good management, upon cessation of marine killing, will rapidly augment both herds again, for no animals are more susceptible to good treatment in breeding than these. Their marine enemies, aside from man, are a constant factor of destruction in disregard of which they multiply.

Increase of Commander Islands herd down to 1890.

Pelagic sealing diminishing that herd.

I have no interest whatever in the sealeries or the seal-skin trade.

G. NIEBAUM.

Subscribed and sworn to before me this 13th day of May, A. D. 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of L. A. Noyes, resident physician on the Pribilof Islands from 1880 to 1892.

HABITS, MANAGEMENT, AND PELAGIC SEALING.

ST. GEORGE ISLAND, PRIBILOF GROUP,
Alaska, U. S. A., ss:

L. A. Noyes, being duly sworn, deposes and says: I am a native American, and my home is in Randolph, Vt. I am 52 years of age, and a physician by profession.

In 1880 I entered the service of the lessees of the Pribilof Islands as resident physician at the seal islands, and I have resided here continuously ever since, excepting an occasional visit to my home, for a few months in winter, once or twice since 1880.

Experience.

From June, 1880, to August, 1883, I was on St. George Island, and

from 1883 to 1884 I was on St. Paul Island. I then returned to St. George, where I have resided ever since, excepting the vacations aforesaid.

I have given much time to the study of the Alaskan fur-seal and its peculiar habits, and I have watched with care and solicitude the increase and the decline in numbers of the animal on the hauling grounds and rookeries, and also the methods followed by the lessees in taking the skins—the driving and killing of the young males of from two to five years old, and the salting, curing, bundling, and shipping of the skins. I have likewise carefully observed and noted the coming of the seals in the spring, the hauling out at different times of the various ages and sexes, their disposition on the hauling grounds and rookeries, the formation of the “harem” or family, the birth of the pups, the migrations of the mother seals to feed, the breaking up of the harems, the scattering of the cows, and the general intermingling of the sexes in September, and finally the departure of the herd from the islands in November or later.

I have read most of all that has been written within the past quarter century on the fur-seal question; and I have listened to and taken part in many of the controversies indulged in by my associates and friends—men who have spent many years in the fur-seal industry and whose practical experience with all its details gives weight and value to their assertions. It was I who, at the request of the United States Treasury agent in charge of the islands, measured all the rookeries and hauling grounds on St. George Island in 1887,¹ and I have kept the record of the climatic changes on St. George since the United States Government discontinued the meteorological station at the Pribilof Islands.

In addition to my services as physician, I have occasionally taught the school on St. George, and I have kept the books and accounts for many years for the lessees on the same island. I am thoroughly conversant with the orders issued by the general and local agents of the lessees to the native chiefs in regard to everything appertaining to the business of taking the annual “catch” and the care of the seals. I have been intimately acquainted with the Treasury agents who have had charge of the islands since 1880, and I acted as assistant agent myself during the temporary absence of the assistant special agent. I am quite familiar with the general and special orders and instructions issued from the Treasury Department from time to time to the special agents for the government of the natives and the care of the rookeries and seal herd. And I know those laws, rules, and regulations have been faithfully adhered to and fully enforced, published reports of transient visitors to the contrary notwithstanding.

The seal islands of St. Paul and St. George, geographically known as the Pribilof Islands, are situated in Bering Sea at about 170° west from Greenwich and 56° north latitude; and they are nearly 200 miles from the nearest land.

The climatic conditions in their immediate vicinity are so peculiar and their formation and situation are so unique that it is not hard to believe they were selected for a home and resting place by the Alaskan fur-seal because of their adaptability to that purpose, and to that only. The thermometer rarely goes higher than 60° or lower than zero; the average for a number of years being 35°.

In winter the islands are sometimes surrounded by broken ice, which

¹ The measurements were made very imperfectly, and I never claimed anything but an approximate measurement. It was my opinion that the numbers were exaggerated, and I so stated at the time.—L. A. N.

comes from the north, and it will come and go with the tide and currents, generally from January to April, but occasionally remaining later, and again not appearing at all.

In June, July, and part of August, the islands are enveloped for days at a time in dense fog, and a clear sunny day is of rare occurrence. The atmosphere is damp and cool, and the rain falls in a sort of fine mist which drenches one through before it is felt.

The islands are of volcanic origin, and the shores are rough, uneven lava rock, and broken rock and bowlders of like formation. On this rugged shore the Alaskan fur-seals make their summer home; here they are born and reared for the first six months of their existence; here they come every spring as regular as time, and here they reproduce their species. The career of the fur-seal herd on these shores is not unlike that of any domesticated animal—it is simply a stock-breeding question.

The career of the seal is a question of stock breeding.

Areas upon which it is agreeable for the females to breed are carefully reserved and set aside for that purpose.

Each year a sufficient number of breeding bulls are reserved for service on the rookeries. The utmost care is taken that the future of the herd is not jeopardized by the injury or death of a female.

So accustomed have the seals become to the presence of the natives that the timidity and shyness manifested in the ocean is not shown on the islands. In their infancy the pups will approach a native without fear, and later on they are readily handled, and the sexes separated, should it be necessary to make a killing of pups for food. In the handling, management, and enlargement of the seal herd there is as much amenability to domestication as there is in a band of range cattle.

Tameness of seals.

The male breeding seals, or bulls, begin to haul out on the breeding rookeries early in May, and they come in more and more rapidly as the month advances, and selecting their respective stations lie down and sleep almost continuously until within a few days of the coming of the females, or cows, when they assume a sitting posture and set up a bellowing noise peculiar to themselves, which I suppose to be a "call" to the approaching herd of cows. It is at this time the bull appears at his best and in his most aggressive mood, and none but the physically strong and successful are allowed to remain within striking distance of the veterans.

Arrival of bulls.

The cows begin to haul out in June, and practically they are all on the breeding rookeries by July 15. Immediately on arriving they are taken possession of by the bulls, the strongest and most aggressive securing the greatest number, and guarding with jealous care and increasing vigilance.

Arrival of cows.

As a rule the pups are born soon after the cows reach the shore, though it occasionally happens that a cow will be two or three days on the rookery before bringing forth her young.

Birth of pups.

I think the pups are all born by July 22, and by the middle of August the cows have been fertilized for the next year, after which the harems are abandoned, and the bulls begin to leave the islands, and the females and bachelors (or young males) intermingle indiscriminately on the rookeries. From the time the bulls haul out in May till they leave in September they neither eat nor drink, and their lean and lanky appearance in September is in striking contrast with their rotund form and sleek and glossy coats in May.

Bulls fasting on rookeries.

When the pup is born it is utterly helpless and dependent; it is not amphibious, and would drown if put into water. I have often watched the pups near the water's edge when in stormy weather the surf carried them off, and in every instance they drowned as soon as they went into deep water.

Pups not amphibious.

The pup is entirely dependent on its dam for sustenance, and when it is a few days old she goes into the sea to feed, returning at intervals of a few hours at first, and, gradually lengthening the time as the pups grow older and stronger, until she will be, sometimes, away for a whole week. During these journeys, in my opinion, she goes a distance of from 40 to 200 miles from the islands to feed; and it is at this time she falls a prey to the pelagic hunter.

Mother cows feeding.

Returned to the rookery, the cow goes straight to the spot where she left her pup, and it seems she instantly recognizes it by smelling; and it is equally certain that the pup can not recognize its dam. I have often seen pups attempt to suck cows promiscuously, yet no cow will suckle any pup but her own. When five or six weeks old the

Pups podding.

pups begin to run around and form bunches or "pods;" at seven to eight weeks old they try the water at the edge, where, after paddling in the shallows, they gradually learn to swim. After becoming expert swimmers they continue to show a preference for land, where they generally remain if not driven into the water by heavy rain or warm sunshine. They make no effort to secure sustenance of any sort beyond that furnished by their dams.

I have examined many pups at the food killings in November, and I never found anything but milk in their stomachs.

The young males, or bachelors, whose skins are taken by the lessees, begin to haul out in May, and they continue to haul out until late in July, the older ones coming first and the younger ones later; and they herd by themselves during May, June, and July, because were they to approach the breeding grounds the bulls would drive them off or destroy them.

Arrival of bachelors.

The "bachelors" of from 2 to 5 years old are the only seals driven or killed on the seal islands by anyone or for any purpose; and the sensational stories told of how they are

Management.

"tortured" on the drive have no foundation in fact. When necessary to make a drive for skins from any given rookery, the local agent of the lessees informs the Treasury agent, and obtains his permission to make the "drive." No seals are driven without the consent of the Treasury agent in charge of the island. All being ready, the native chief takes a squad of men to the hauling ground, where the seals are quietly surrounded without disturbing the breeding rookery, and they are then driven slowly along to the killing ground.

Driving.

Since the improved methods of 1879 there is no drives of greater length than $2\frac{1}{2}$ miles, and the majority of them do not exceed 1 mile. So carefully and so slowly are the drives made, the men driving are relieved every hour, because of the slow motion they get chilled on the road. Arrived at the killing grounds, the seals are driven out from the main body in "pods" of twenty or thirty at a time, and experienced men club and kill the desirable ones, and allow all that remain to return at their leisure to the adjacent waters. The most experienced men do the skinning, and after them come the women and children who carry off the carcasses for food, and the fat or blubber for winter fuel.

Length of drives.

Killing.

In accordance with instructions from the Department, the Treasury agent is always present at the killings, and he has full power and authority to interfere in all cases where there is cruelty practiced or attempted.

All seals killed by the lessees for skins are killed between June 1 and July 30, and generally the season closes on the 20th of July.

Killing season.

After the regular season closes, in July, the natives kill, weekly, for food, from one to two hundred male seals whose skins are large enough to be accepted as part of the next year's quota; and it is during these "food" drives in August, September, and October that an occasional female is accidentally killed. Being mixed with the "bachelors" at this time, some females are driven and accidentally killed. The killing of a female is the greatest crime known on the seal islands, and is never done intentionally. Of this I am most positive, for I know that every possible precaution has been taken to guard against it; and I believe there has not been one hundred females killed on St. George Island since 1880, if I may except some killed by poachers who were driven off before they secured the skins of the seals they had killed.

Seals killed for food.
Females killed only by accident.

Never since the islands have been American property, has there been indiscriminate killing done upon them, nor has there been a desire on the part of anyone connected with them to injure or damage or waste seal life; on the contrary, everything has been done by the lessees, past and present, and by the United States, to foster and protect it, and to improve the methods of driving the seals, so that the herds might grow and thrive and increase, and perpetuate themselves indefinitely. Laws, rules, and regulations were made from time to time, prompted by experience, with a view to add to the value of the property, and to abolish everything that was not beneficial and in strict accord with the most humane principles. To this end all long drives were prohibited, and arrangements made by which the killing grounds have been brought as near the hauling grounds as is practicable without being injurious to the breeding rookeries.

Laws, rules, etc., on islands for preservation of seal life.

Orders were issued by which the driving is regulated in such manner that no hauling grounds are molested or disturbed more than another, and, being taken in rotation, the seals are allowed several days rest between drives. The rules for driving are so strict, so rigidly enforced, and so faithfully carried out, that I hardly know how they could be improved upon.

In my opinion the cows are the only seals that go into the sea to feed from the time they haul out in May till they leave the islands in November or December; and my opinion is based on the fact that the seals killed in May have plenty of food in their stomachs, mostly codfish, while those killed in July have no signs of anything like food in their stomachs.

Cows the only seals that leave islands to feed.

Again, the males killed for food as the season advances are found to be poorer and poorer, and in all cases after July their stomachs are empty. I am convinced, therefore, that none but mother seals go into the sea to feed during the summer months, and this accounts for the sudden decrease in the herd after the sealing schooners became so numerous in Bering Sea about 1884. The decrease in the number of seals coming to the islands in the last three or four years became so manifest to everyone acquainted with the rookeries in earlier days that various theories have been advanced in

Decrease of seals.

an attempt to account for the cause of this sudden change, and the following are some of them: 1st, "A dearth of bulls upon the breeding rookeries;" 2d, "Impotency of bulls, caused by overdriving while they were young bachelors;" and 3d, "An epidemic among the seals."

The "dearth of bulls theory" has been thoroughly and impartially investigated without discovering a cow of 3 years old or over on the rookeries without a pup by her side at the proper time, and I am convinced that the virgin females coming on to the rookeries for the first time are the only ones to be found there without pups.

The investigation established the additional fact that hundreds of vigorous bulls were lying idle on the rookeries without cows, and many others had to content themselves with only one or two.

The theory of "impotency of the bull through overdriving" while young was also found to be untrue, and it was shown that after 1878 all long drives on both islands had been abolished, and instead of driving seals from 6 to 12 miles, as was done in Russian times, none were driven to exceed $2\frac{1}{2}$ miles.

It is also a well-known fact that none but the physically strong and aggressive bulls can hold a position on the rookeries; and that a weak or an impotent animal has no desire to go there.

The epidemic theory was urged very strongly in 1891, when the rookeries were found covered with dead pups; but a careful and technical examination was made on several of the dead bodies without discovering a trace of organic disease; while starvation was so apparent that those who examined them decided that it was the true cause of their death. Had sickness or disease attacked the seal herd, it is only reasonable to suppose a few grown seals would be found dead where so many young ones had died so suddenly; but the most diligent search has failed to find a grown seal dead upon the islands from unknown causes.

From the discovery of the islands until the present time the flesh of the fur-seal has been the daily meat ration of the natives and of the white people, and yet it is a fact that a tainted or diseased carcass has never been known.

In my opinion the solution of the problem is plain. It is the shot-gun and rifle of the pelagic hunter which are so destructive to the cow seals as they go backwards and forwards to the fishing banks to supply the waste caused by giving nourishment to their young.

At this time they are destroyed by thousands, and their young of but a few weeks old must necessarily die of starvation, for nature has provided no other means of subsistence for them at this time of life.

Unless the pelagic hunter is prevented from taking seals in Bering Sea and in the North Pacific, the Alaskan fur seal will soon cease to be of commercial value.

Protection necessary.

L. A. NOYES, M. D.

Subscribed and sworn to before me, an officer empowered to administer oaths under section 1976, Revised Statutes of the United States, this 11th day of June, 1892, at St. George Island, Alaska.

WM. H. WILLIAMS,

Treasury Agent in charge of Seal Islands.

Deposition of Harrison Gray Otis, Treasury agent, in charge of the Pribilof Islands.

MANAGEMENT. PELAGIC SEALING.

LOS ANGELES, CAL., *April 24, 1892.*

Harrison Gray Otis, being duly sworn, says: I am a resident of this the city of Los Angeles, California; am president of the Times-Mirror Company, and editor and manager of the Los Angeles Daily Times. I was special agent of the Treasury Department, in charge of the fur-seal islands of Alaska during the years 1879, 1880, and 1881, and had three assistant special agents stationed at the islands, acting under my directions. During these years I was present at the islands throughout each sealing season, having my headquarters on the island of St. Paul, and visiting the smaller island of St. George each season, and with my assistants personally superintended the catch of seals and the count and shipment of skins in every instance. During every sealing season, from the beginning to the end, I made it my special business to personally visit and inspect the breeding rookeries and the hauling grounds from time to time with a view to informing myself accurately as to their real condition, especially as to numbers, habits, and habitat.

In all these years seals of all classes were present at the islands in vast numbers, so that the annual catch of 100,000 skins, 80,000 on St. Paul and 20,000 on St. George, was taken with great ease and facility, the killing season proper extending over a period of only about forty-five days in each year, and the actual working days being only from thirty-two to thirty-five in each year.

During my term of service at the islands I made careful and elaborate reports each year to the Secretary of the Treasury. In one of these reports, dated July 30, 1881, I embodied a compilation from the official records covering a period from 1871 to 1881, with the object of showing the relative abundance of the seal life during those years. The table was preceded in my report by the following explanatory language: "The following table, covering a period of eleven years, shows: (1) The number of seal skins taken in each sealing season proper on St. Paul's Island; (2) the number of days expended in the work; (3) the number of sealers engaged; (4) the average number of skins taken per day; and (5) the average daily catch per man engaged; and it is confidently submitted as the most solid ground we have to stand upon in attempting an answer to the inquiry, 'Are the fur seals of Alaska increasing or diminishing in numbers?'"

Briefly summarized, the table shows that the working days for sealing proper were reduced from 55 in 1871 to 35 in 1881; that the average daily catch was increased from 1,375 in 1871 to 2,158 in 1881, and that the daily average catch per man employed was increased from 21 in 1871 to 32 in 1881.

The plain lesson taught by these figures and comparisons is that the vast increase in the seal life due to the proper and adequate protection of the rookeries and of the waters adjacent thereto made it possible for the lessees to take the full quota of 100,000 skins in the very short period of from thirty-three to thirty-five working days. In truth, so abundant were the seals during these years that after the close of the sealing season, about July 20, when the entire number of 100,000 skins had been taken, the rookeries and haul-

Experience.

Abundance of seals,
1879-'81.

Tables.

Increase in 1881.

Protection justified.

ing grounds still held a vast population of these animals and it required an expert to perceive the fact that they had been depleted at all.

During those years the sealing season commenced about June 1st to 4th and closed invariably before the 20th of July, so that the disturbance to the herd was confined to the shortest possible period of time and reduced to the minimum. The effect of this was of course most excellent. In addition to which fact the skins were always in prime condition during that period; whereas, later on, the "stagey" season commences, when the skins are inferior and not marketable.

The conspicuous fact most apparent to me during all those years was that by the enforcement of the wise laws enacted by Congress early after the acquisition of Alaska, this precious animal life could be and was protected and preserved in the fullest measure, and that being so protected the natural increase of the herds more than offset the annual killing, great as it was.

The most scrupulous care was always taken by all persons at the islands, including Government agents, the Alaska Commercial Company's agents, and the native chiefs and people, to spare and protect the mother seals, whether upon the rookeries or elsewhere on the islands; so careful were we in that regard that whenever a female seal happened to be driven up along with a herd of killable seals, or "bachelors," she was promptly distinguished from the males, never killed, but separated from the mass and allowed to make her way again to the sea. In all respects great care was taken to prevent the unnecessary harassment of any class of seals, whether old or young, male or female.

The breeding rookeries themselves were never under any circumstances disturbed. There was indeed no occasion to disturb them, because the killable seals, or "bachelors," from 3 to 5 years old, were so numerous that the whole catch could be taken from this class with the ease and facility which I have already described.

Besides, under the operation of the natural laws governing the species in their habitat, the classes are distinctly separated on land, the bulls, cows, and pups occupying the breeding rookeries proper, while what are known as the "bachelors," to wit, those young males which have not arrived at the dignity of being the heads of harems, haul out of the sea and gather upon the shores separate and apart from the breeding rookeries, so that the driving for killing purposes could then be readily done without interfering with the breeding rookeries. Thus a wise deference on the part of man to the habits of this systematic race of animals can be turned to valuable account and nature be made to reinforce commerce in her work.

During those years the lawless occupation of seal poaching was in its infancy. Marauding vessels, it is true, appeared from time to time in these waters, but the islands were so well guarded that during my term of office there never was a successful raid or landing upon either of the islands of St. Paul or St. George. The only landing upon any island of the group was made in June, 1881, upon the unoccupied island of Otter (not included in the lease), as described in my special report to the Secretary of the Treasury, dated July 4, 1881. On that occasion a predatory schooner succeeded in landing a boat's crew, who killed forty or fifty seals, when they were driven off by a boat sent by me for that purpose from St. Paul, about 6 miles distant.

No raids in 1881.

Another practical proof of the fact that the seals were generally increasing during those years on St. Paul's Island was found in the fact that a large overplus found their way to the Island of Otter, a small island about six miles away, and not included in the Alaska Commercial Company's lease. Otter was not a breeding island, but a loafing and resting place for the "bachelor" seals, which congregated there to the number of several thousands during the season. I noted the movement with care, and believed then that with due protection the island would in time have become a breeding island like the others, only to a lesser extent. My views and observations in regard to Otter Island were set out in a special report to the Secretary of the Treasury, dated April 1, 1882.

Seals increasing in 1881.

Otter Island.

My observation in regard to the pup seal life during those years was that the loss from natural causes was exceedingly small. I made frequent visits to the breeding rookeries during and after the close of the breeding season, and found only a very small number of dead bodies; it was a rare thing to find a dead pup seal. In one of my official reports I made an estimate of the loss from natural causes, which I fixed, I believe, at only 1 or 2 per cent of all classes. Some of these losses were due to their perhaps too early attempts to swim. When the pup is a few months old the mother seal conducts it to the water and teaches it to swim near the shore. If a heavy sea is encountered the weak little pup is liable to be thrown by the surf against the rocks and killed, but under natural conditions and with the protection to the rookeries formerly enforced at the islands, the losses from this cause and all others combined (save alone the authorized killing) amounted to an infinitesimal percentage of the whole numbers in the herds.

Few dead pups.

Pups learning to swim.

Pl. ut

The practice formerly prevailed of permitting the native people to kill a very considerable number of four-months' old pups for food. This was done about November in each year, the numbers so killed being 5,000 on St. Paul Island and 1,500 on St. George Island. After observation and study, I satisfied myself that the number of pup seals so killed might properly be diminished somewhat, although it could only be done against strong opposition on the part of the native people, who are specially partial to the meat of pup seals, claiming that for purposes of salting and preservation for winter food the meat of the older seals is unfit. I, however, restricted the killing of pups to 3,000 on St. Paul Island and 1,000 on St. George Island, upon the condition and agreement on the part of the Alaska Commercial Company, which also favored the restriction, that it would supply to the native people, in lieu of the pup seal meat taken away, a sufficient quantity of corned beef and canned milk to satisfy the wants of the inhabitants. Deference was always paid to the wants and the fixed tastes of the native people and their families in this matter of supplying young seal meat for their subsistence, for the reason that the entire seal industry at these islands has always depended in so large a measure upon the skill and labor of these people, who have invariably been employed to take the skins, and have no other occupation whatever. In the plethoric condition of the rookeries during the period of my service at the islands, and with the vast numbers of seals of all kinds, there was not any difficulty about the matter of either food seals or the taking of seal skins for commercial purposes. Stringency could only arise by the general destruction of the seal life which has taken place in recent years.

Pups killed for food.

Killing of pups restricted.

In regard to the broad question of the protection of the seal life at our possessions in the Bering Sea, I have clear and decided views. I think there has been a criminal waste of this most precious animal life, and that the whole recent era of destruction should have been averted by the prompt and forcible interference of the Government. It is a great industry, that deserves the fullest protection, whether the Government and people of the United States, or those of Great Britain, or Canada, or Russia, are concerned.

Criminal waste of life.
Protection necessary.

All have interests more or less in common in the perpetuation of the seal life and the preservation of this industry. The destruction of the seals results only in loss to all. When they are gone, there are no longer any seals to quarrel over and no need of the *modus vivendi*. I believe that our Government should have sought the coöperation of that of Russia, and that they should jointly have thrown a powerful fleet into those waters and protected the common interest. There is no question in my mind but that a vast deal of the destruction which has been going

Pelagic sealing.

on in recent years is directly due to the lawless killing in the open sea on the annual migrations of the female seals northward to the seal islands for the purpose of bearing their young, and later, on their voyages from the rookeries to the adjacent fishing banks in search of food. You can no more preserve the seal life at these islands with these destructive methods in vogue than you could preserve a band of sheep or any race of domestic animals by turning loose a pack of wolves to raid them between their pasture grounds and their corrals. A fur-seal is an animal of high and fine organism, with wonderful delicacy and sensitiveness, and however much attached to their natural land habitat they may be, are easily driven therefrom by violent methods, whether upon land or in the water. The whole secret, in my judgment, of the preservation of the seal life at the Pribilof Islands and in the Bering Sea lies

Wholesale destruction.

Protection necessary.

in a prompt return to those early methods of preservation which produced such marvelous results for good during the earlier years of our possession of the islands. The suppression of unlawful and miscellaneous seal killing, whether in the open sea or along our northern coasts, is the essential thing, in my judgment, to resuscitate this great industry and prevent the utter extermination of the seal life.

Absolute prohibition essential.

To one like myself, having a practical knowledge of the subject, derived from close personal observation and study on the ground, it is amazing that there should have been so much delay on the part of the countries most concerned, in arriving at a full agreement for the adequate protection of this unique and valuable industry. Indiscriminate poaching has only resulted in injury to the common interest, benefiting only the few lawless poachers who have been suffered to invade what should be treated as sacred marine territory.

I desire to add that I have not now, and never have had, any pecuniary or property interest whatever, directly or indirectly, in the sealing industry, and that I look upon this question simply as an American citizen desirous of seeing that which belongs to our Government and people defended and protected to the uttermost.

HARRISON GRAY OTIS.

Subscribed and sworn to before me this 25th day of April, 1892.

[L. S.]

FREDERICK HARKNESS,

Notary Public.

Deposition of Benjamin F. Scribner, assistant Treasury agent on the Pribilof Islands.

MANAGEMENT. HABITS. PELAGIC SEALING.

DISTRICT OF COLUMBIA,

City of Washington, ss:

Benjamin F. Scribner, being duly sworn, deposes and says: I am 66 years of age, and a pharmacist by profession. My residence is New Albany, Ind. In July, 1878, I was appointed assistant Treasury agent for the seal islands, and arrived on said islands in May, 1879. I landed at St. George Island and remained there continuously until August, 1880, except a part of the season of 1880 I spent on St. Paul Island. During this time I made a careful study of seal life in connection with my official duties, and also for my own satisfaction. I noticed during this period no perceptible increase in the breeding rookeries on St. George. There was always in both seasons a great sufficiency of adult males to serve all the females coming to the island, and I noticed each year a great number of idle, vigorous bulls behind the breeding grounds who could not obtain consorts, and one of these extra bulls always took the place of an old male unable longer to be of use for breeding purposes. It is my opinion that a bull is able to fertilize a hundred or more cows, and this fact I base upon my observations of the habits and conditions of the males while located on the rookeries. It is utterly useless to endeavor to estimate the number of seals on the islands. One might as well try to estimate a swarm of locusts, for they are constantly in motion, never for an instant seeming to be at rest. The breeding rookeries can, of course, be measured from year to year, and these measurements would show an increase or decrease of seal life, for the harems on the rookery are in close proximity, whether there are few or a great many of them.

Experience.

Plenty of adult males.

Breeding power of bulls.

The areas covered by these rookeries are very broken and uneven, on account of the huge masses of rock which are distributed in unequal quantities over the surface of every rookery. Therefore, to count the seals on a given area and use that to estimate the whole number on the rookery would be absurd. The estimates of the number of seals which have been made heretofore are entirely unreliable in my opinion, and no dependence or calculations should be based on such guesses. Never while I was on St. George Island did I see a dead pup on the rookeries, and I certainly should have noticed if there had been any number on the island. In my judgment, and from my knowledge of the habits and conditions of seal life, I would state that a pup born in the water would certainly perish, and I never saw during my experience a pup land on the island with the females when they arrived in the early summer, and I never heard of such a case. I am confident that if a mother seal was killed while absent from the island her pup would die of starvation in a few days, for the female seal will not suckle any pup but her own. While on St. George Island I attended nearly every killing of the bachelor seals (which are the ones taken for their skins) and also many drives. I very frequently went over the ground where a drive had been made, after such had taken place. I became familiar with the manner of driving, handling, and killing the seals by the natives, and I consider the methods employed by them to be practically

No dead pups in 1880.

Habits of females.

Driving.

Method perfect.

perfect, and no improvement can be made on such methods. The greatest care is always taken not to heat the seals in driving them, and in case the sun came out during a drive the seals were allowed to return to the sea.

Only two females were ever killed, to my knowledge, by the natives in driving. I then made every effort to discover who had killed them, my object being to thoroughly impress on the minds of the natives and the agents of the lessees that the accident must not occur again. It was a very rare occurrence for a seal to be killed by overdriving. I never saw or heard of a seal being injured by driving or redriving, and I am certain that the reproductive organs of a seal were never injured by any such means. The idea that the virility of a male seal was impaired by driving or redriving is preposterous, for a male seal which can survive fasting for three months, and the serious wounds and violent exertions of conflicts on the rookeries, besides serving so many females, could stand almost any amount of driving while a bachelor. While I was on the islands there were no raids on the rookeries, and seal life was never depleted at that time by such means. The seal herd which frequents St. Paul and St. George can be only preserved, in my opinion, by preventing all killing of seals except on the islands, where judicious regulations can be enforced as to the number, sex, age, and conditions of the seals to be taken; otherwise extermination will result in a very short time. If the seal herd is protected, and the regulations now in force are maintained, a hundred thousand seals can be taken annually from these islands for an indefinite time, provided the seal life is allowed to regain its normal condition from the drain lately made upon it by the indiscriminate slaughter occasioned by open-sea sealing.

B. F. SCRIBNER.

Subscribed and sworn to before me, a notary public in and for the District of Columbia, U. S. A., this 23d day of April, 1892.

[L. S.]

SEVELLON A. BROWN.

Notary Public.

Deposition of Leon Sloss, member of the firm of Louis Sloss & Co., furriers and superintendent for the former lessees on the Pribilof Islands.

MANAGEMENT. PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Leon Sloss, having been duly sworn, deposes and says: I am 33 years of age, a native of California, and a resident of San Francisco, California. I was for several years a director of the Alaska Commercial Company, and am a member of the partnership of Louis Sloss & Co., and have been engaged for the past fifteen years in dealing in wools, hides, and fur skins, but have now no interest in seals or sealeries.

I was superintendent *pro tempore* of the sealeries of Alaska in the interim from 1882 to 1885, inclusive, during the illness of H. H. McIntyre, the regular superintendent, and spent the sealing season of those three years on the Pribilof Islands in the personal management of the business. I am, therefore, by reason of this service and of my active employment at all other times in the office of the Alaska Commercial

Company from 1877 to this date, acquainted with every aspect of the business. All advices from our London agents, and information in regard to the sealskin market from all sources, passed through my hands, and instructions to the agents of the company in regard to the class of skins desired emanated from time to time from me. I had no difficulty in getting the size and weight of skins as ordered, nor had my predecessors in the office, up to and including 1884. The casks in which we packed them for shipment were made by Size of packing casks. the same man for many years, and were always of uniform size. In 1885 these casks averaged about $47\frac{1}{2}$ skins each, and in 1886 they averaged about $50\frac{1}{2}$ skins each, as shown by the records in our office. After this date the number increased, and in 1888 they averaged about $55\frac{1}{2}$ skins per cask, and in 1889 averaged about 60 skins per cask. These latter were not such skins as we wanted, but the superintendent on the islands reported that they were the best he could get.

The work of taking the annual "catch" was done in 1883, 1884, and 1885 under my management in the same way in every particular as under my predecessor. The seals were carefully driven, Driving. handled, and killed in an orderly manner, the whole work being carried on as systematically and quietly as in the well conducted slaughterhouses in our cities. The talk about lasting injury resulting from overexertion to such seals as are turned back to the water after having been driven to the killing grounds is nonsense. The management of the rookeries the first fifteen years of the Alaska Commercial Company's lease resulted in a large increase of seals. The same business management continued, and the same system was pursued to the end of the term, yet in the last five years the rookeries fell off. Decrease. Clearly it was through no fault of the company, and resulted from some cause beyond their control. I do not think the Alaska Commercial Company made any mistakes in managing the seal herd. They handled them in every respect as I would have done if they had been my own personal property, and as I would do if they were now to come into my hands. Care exercised by Alaska Commercial Company. If they erred in any particular in their management, it was in their futile attempt in 1888 and 1889 to stop the waste of seal life at the island spigot while it was running out at the bunghole of pelagic sealing.

The record shows that we did not finish the catch as early in 1885 as had been done in former years. I do not think this was from any lack of seals, but was caused by greater care in making our selection of animals to be killed. I saw no diminution of seal life during my three years on the island. The outlines of the rookeries remained just about the same from year to year. I was told at the time that there had formerly been a large increase, and did not then understand why it did not continue, as every condition seemed favorable for it. There were, apparently, an abundance of bulls for service; every cow seemed to have a pup and all were healthy and in good condition. No decrease up to 1885. No females were killed, and in the natural order of growth there ought to have been at this time a constantly increasing area covered with breeding rookeries. Yet such was not the case. The explanation of the matter came later when we fairly awoke to the fact that our animals were being slaughtered by tens of thousands in the North Pacific. I knew in a commercial way from our sales catalogue that a very Seals healthy. large number of "Victoria skins," as they were called, No females killed on islands. Growth of pelagic sealing.

were being sent to market, and that this number grew constantly larger; but I did not then know, as I now do, that each skin sold represented a waste of two or three and perhaps even four or five seals to obtain it. Nor was any attention given to the now well known fact that these animals were a part of our herd, as wrongfully stolen from us, I believe, as my cattle would be if driven in and appropriated from the highway when lawfully feeding.

Prof. H. W. Elliott says in his report of 1874 that: "With regard to the increase of seal life, I do not think it within the power of human management to promote this end to the slightest appreciable degree beyond its present extent and condition in a state of nature."

If he means by the words "in a state of nature," a condition in which no slaughter is allowed, I quite agree with him; but I do not agree that the increase can not be aided by killing surplus bulls. When herded in common pasture, the greatest number of progeny from our domestic animals will unquestionably be brought forth and live to adult age if a large portion of the males have been killed or castrated. The same no doubt holds good with respect to the seals. It is only when, as in the case of the seals, that the mothers and young offspring are slaughtered that the increase is checked. I

am informed by our London sales agent, and believe, that nearly or quite nine-tenths of the Victoria catch is comprised of females.

I am asked if a zone of prohibition about the islands, a territorial limitation, or a close season for pelagic sealing, one or all of these restrictions will not, in my opinion, prove a sufficient restraint upon marine hunters to allow the rookeries to grow again. I answer emphatically no. I do not believe they will suffice, and my answer is without personal bias, for I am not now engaged in the sealskin trade and have no interest in the industry other than that of the average American citizen. The scarcity of seals and consequent high price of skins stimulates the ingenuity of every man in the business either to evade restriction or invent more certain methods for capturing the animals. The rookeries are doomed to certain destruction unless brought within the sole management of those on the islands, whose

care for them. Marine sealing should be absolutely prohibited and the prohibition enforced.

I have handled many sealskins coming from both north and south of this port, and can readily distinguish the difference between them. Those from the southern islands are from a different species from the Alaskans, and both differ from the Asiatic skins. The skins from the warmer latitudes are greatly inferior. The fur is short and thin, and of a reddish brown color. They can be detected at once. It is not as easy to distinguish the Alaska from the Asiatic skins, but experts in handling them, nevertheless, do it with unerring accuracy.

LEON SLOSS.

Subscribed and sworn to before me this 7th day of May, A. D. 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of William H. Williams, Treasury agent in charge of the Pribilof Islands.

MANAGEMENT. PELAGIC SEALING.

William H. Williams, being duly sworn, deposes and says: I reside at Wellington, Ohio, and am 55 years of age; that I am the United States Treasury Agent in charge of the Seal Islands in Bering Sea; that in pursuance of Department instructions to me of May 27, 1891, I made a careful examination during the sealing season of the habits, numbers, and conditions of the seals and seal rookeries with a view of reporting to the Department from observation and such knowledge on the subject as I might obtain whether or not in my opinion the seals are diminishing on the Pribilof Islands, and, if so, the causes therefor; that as a result of such investigation I found, from the statements made to me by the natives on said islands, Government Agents, Employés of the lessees, some of whom had been on said islands for many years, that a decrease in number of seals had been gradually going on since 1885, and that in the last three years the decrease had been very rapid.

Experience.

Herd decreasing since 1885.

A careful and frequent examination of the hauling grounds and breeding rookeries by myself and assistant agents during the months of June, July, and August showed that the seals had greatly diminished in number, and we found large vacant spaces on all the rookeries which in former years during these months had been covered by thousands of seals; that prior to 1888 the lessees had been able to take 100,000 skins from male seals, but I am clearly of the opinion that not more than one-third of that number of merchantable skins could have been taken during the year 1891. Furthermore, I made careful inquiry of the people on the islands, both native and white, and of those who were or had been employed as masters or mates on sealing vessels, and others interested one way or another in the capture of fur-seals for food or for profit, and failed to find any of them but who admitted that the number of seals in the Bering Sea was much less now than a few years since, and nearly all of them gave it as their opinion that the decrease in number was due to pelagic hunting, or, as they more frequently expressed it, the killing of females in the water. It was freely admitted by the pelagic hunters with whom I conversed that but a very small per cent of their catch was males, and I found their statements in this respect verified by the dealers who bought or handled the skins and placed them on the market. They are known to the trade as the "North West coast catch," and I am credibly informed that a portion of the skin on the belly of the female heavy with pup or giving suck to her young is worthless, and that this is one of the chief causes why they are sold so much less than prime skins in the London Market. They also further stated that the two most profitable periods for them to catch seal was in the spring of the year, when the females were heavy with pup and frequently found asleep on the water, and in the summer, after the mother seal had given birth to her young and gone out into the sea to feed, at which time she was easily approached.

Only one-third of quota of skins could be taken in 1891.

Decrease due to pelagic sealing.

The most profitable period for pelagic sealing.

The investigation further disclosed the fact that of the large number of seals killed by pelagic hunters only a portion of them are secured, and while all admitted that some were lost they differed very considerably as to the number.

Waste of life.

In one instance a hunter claimed that he secured nearly all that he killed, and in another instance it was said that only one out of fifteen was secured. A great majority of the hunters when closely questioned admitted the losing of a large proportion shot at, and I am of the opinion that the wide difference in their statement was due to two facts: First, some hunters are more skillful than others, and, Second, some base their estimate on what they know to have been actually killed, while others estimate from the number shot at; that the mother seals, while rearing their young on the Pribilof Islands during the months of July, August, September, and October of each year, leave the islands

Females feeding.

and go out to sea to feed, returning at intervals to give nourishment to their young. That they traveled long distances in pursuit of food at these times is a well-known fact and substantiated by the statements of reputable persons who have been on sealing vessels and seen them killed two hundred miles or more from the islands, and who say they have seen the decks of vessels slippery with milk flowing from the carcasses of the dead females.

That thousands of the female seals were captured by the pelagic hunters in Bering Sea during the season of 1891, the most of which had to be secured quite a distance from the rookeries, owing to the presence of armed vessels patrolling the sea for miles around the islands, and that the slaughter of the seals was mostly of females, was

Dead pups.

confirmed by the thousands of dead pups lying on the rookeries starved to death by the destruction of their mothers.

It is a fact that none but male seals are ever driven and killed on the islands, and great care is taken to preserve a sufficient number each year to supply the breeding rookeries.

None but males killed on islands.

During the season of 1891 nearly every mature female coming upon the rookeries gave birth to a young seal, and there was great abundance of males of sufficient age to again go upon the

Sufficiency of bulls.

breeding grounds that year, as was shown by the inability of large numbers of them to secure more than one to five cows each, while quite a number could secure none at all. My investigation confirms what has been so often said by others who have reported upon this subject, and that is that the Pribilof Islands

The herd will increase with proper management and prohibition of pelagic sealing.

are the great breeding grounds of the fur-seals, and that they can be reared in great numbers on said islands, and at the same time, under wise and judicious restrictions, a certain number of male seals can be killed from year to year without injury to the breeding herds,

and their skins disposed of for commercial purposes, thereby building up and perpetuating this great industry indefinitely, and thus adding to the wealth, happiness, and comfort of the civilized world, while, on

Extinction of pelagic sealing is prohibited.

the other hand, if the pelagic hunting of this animal is to continue, and the barbarous practice of killing the mother seal with her unborn young, or when she is rearing it, is to go on, it will be but a very short time before the fur-seal will practically become extinct and this valuable industry will pass out of existence.

WM. H. WILLIAMS.

DISTRICT OF COLUMBIA,

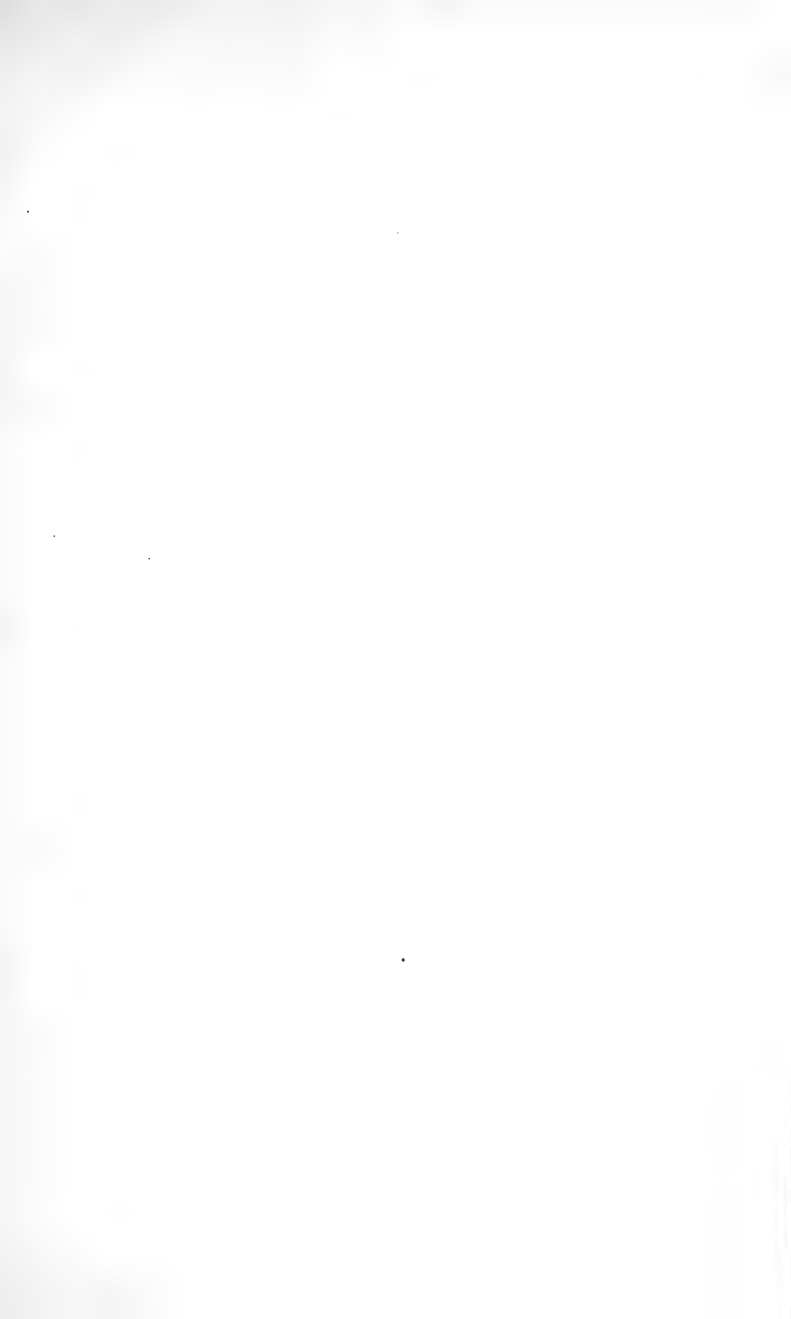
City of Washington:

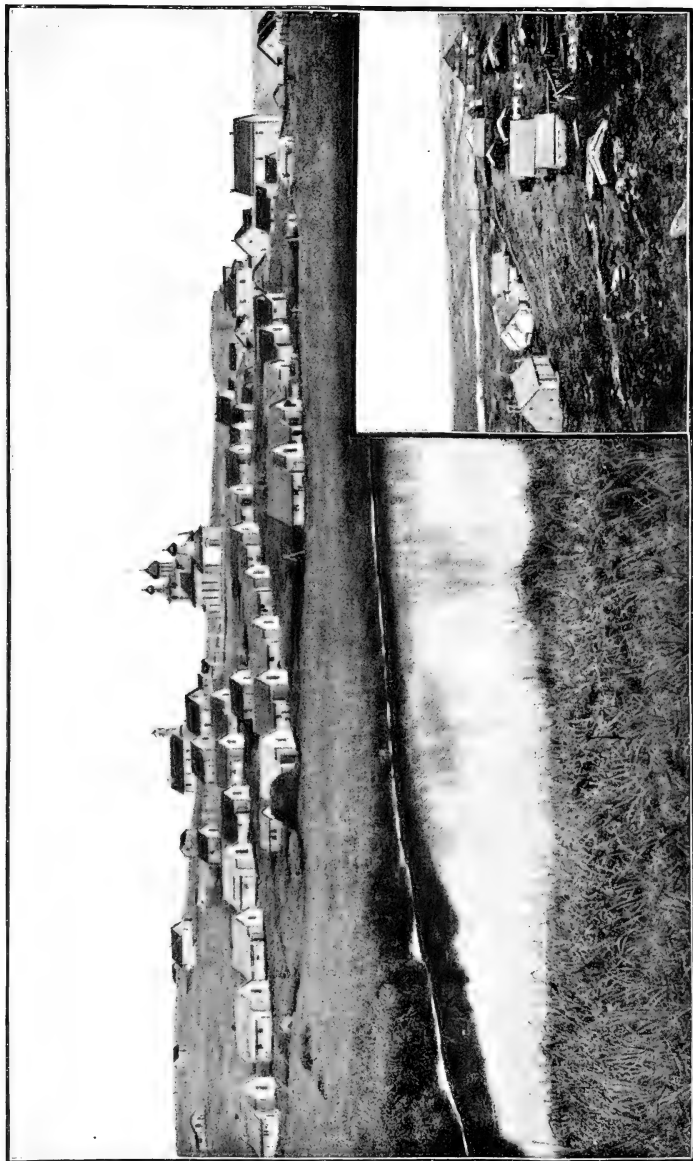
Subscribed and sworn to before me this 19th day of March, 1892.

[SEAL.]

CHAS. L. HUGHES,

Notary Public.





THE VILLAGE, ST. PAUL ISLAND, 1891.

THE VILLAGE, ST. PAUL ISLAND, 1870.

TESTIMONY RELATING TO ST. PAUL ISLAND.

Deposition of J. C. S. Akerly, surgeon U. S. Revenue Marine and resident surgeon on St. Paul Island.

DEAD PUPS.

STATE OF CALIFORNIA,

City and County of San Francisco, ss :

J. C. S. Akerly, PH. B., M. D., having been duly sworn, deposes and says: I am a graduate of the University of California, 1882, and a graduate of the Cooper Medical College, 1885. From June to August 18th, 1891, I was Surgeon on the Revenue-Marine steamer *Corwin*. From August 18th to November 24th, 1891, I was resident Physician on St. Paul Island, one of the Pribilof or seal islands. I am at present a practicing physician at Oakland, California.

Experience.

Physician, St. Paul Island, 1891.

During my stay on the islands I made frequent visits to the different seal rookeries. One thing which attracted my attention was the immense number of dead young seals; another was the presence of quite a number of young seals on all the rookeries in an emaciated and apparently very weak condition. I was requested by the Government Agent to examine some of the carcasses for the purpose of determining the cause or causes of their death. I visited and walked over all the rookeries. On all dead seals were to be found in immense numbers. Their number was more apparent on those rookeries such as Tolstoi and Halfway Point, the water sides of which were on smooth ground, and the eye could glance over patches of ground hundreds of feet in extent which were thickly strewn with carcasses.

Dead pups; number of.

Where the water side of the rookeries, as at "Northeast Point" and the reef (south of the village), were on rocky ground, the immense number of dead was not so apparent, but a closer examination showed that the dead were there in equally great number scattered among the rocks. In some localities the ground was so thickly strewn with the dead that one had to pick his way carefully in order to avoid stepping on the carcasses. The great mass of dead in all cases was within a short distance of the water's edge. The patches of dead would commence at the water's edge, and stretch in a wide swath up into the rookery. Amongst the immense masses of dead were seldom to be found the carcasses of full-grown seals, but the carcasses were those of pups, or young seals born that year. I can give no idea of the exact number of dead, but I believe that they could only be numbered by the thousands on each rookery. Along the water's edge, and scattered amongst the dead, were quite a number of live pups, which were in an emaciated condition. Many had hardly the strength to drag themselves out of one's way; thus contrasting strongly, both in appearance and actions, with the

plump condition and active aggressive conduct of the healthy appearing pups.

The majority of the pups, like all healthy nursing animals, were plump and fairly rolling in fat. I have watched the female seals draw up out of the water, each pick out its pup from the hundreds of young seals sporting near the water's edge, and with them scramble to a clear spot on the rookery, and lying down give them suck. Although I saw pups nursing in a great many cases, yet I never saw one of the sickly looking pups receiving any attention from the female. They seemed to be deserted.

The cause of the great mortality amongst the seal pups seemed to me to have ceased to act, in great part, before my first visits to the rookeries; for subsequent visits did not show as great an increase in the masses of dead as I would have expected, had the causes still been in active operation. It seemed to me that there were fewer sickly looking pups at each subsequent visit. This grew to be more and more the case as the season advanced. When I visited the rookeries for the purpose of examining the dead bodies, it was with extreme difficulty that carcasses could be found fresh enough to permit of a satisfactory examination. I examined a large number of carcasses. All showed an entire absence of fatty tissue between the skin and muscular tissue.

The omentum in all cases was destitute of fat. These are the positions where fat is usually present in all animals. Well nourished young animals always have a large amount of fat in these localities. The few carcasses which were found in a fair state of preservation were examined more thoroughly. The stomachs were found empty and contracted, but presented no evidence of disease. The intestines were empty, save in a few cases, where small amounts of fecal matter were found in the large intestines. A careful examination of the intestines failed to discover any evidence of disease. The heart, lungs, liver, and kidneys were in a healthy condition.

Such is the evidence on which I have founded my opinion that the cause of the great mortality during 1891, amongst the young seals on St. Paul Island, Bering Sea, was caused by the deprivation of mother's milk. The result of my investigation is, that there was great mortality exclusively amongst nursing seals. Secondly, the cause of this mortality seemed to have been abated *pari passu* with the abatement of sea sealing. Thirdly, the presence of emaciated sickly looking pups which were apparently deserted by their mothers. Fourthly, the plump healthy appearance of all the pups I saw nursing. Fifthly, the emaciated condition of the dead. Sixthly, the absence of food in the stomachs, and their contracted condition. Seventhly, the absence of digested food in the small intestines. Eighthly, the absence of even fecal matter, save in small amounts in a few cases. Ninthly, the absence of structural changes in the viscera or other parts of the bodies to account for the death.

J. C. S. AKERLY, PH. B., M. D.

Subscribed and sworn to before me this 16th day of April, A. D. 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Watson C. Allis, assistant agent of lessees on St. Paul Island.

MANAGEMENT; HABIT; PELAGIC SEALING.

STATE OF CALIFORNIA,

City and county of San Francisco, ss :

Watson C. Allis, having been duly sworn, deposes and says: I am 36 years old, an American citizen residing in San Francisco, California, and by occupation an Agent of the Fairbanks Scale Company, engaged in selling and setting up scales. Experience.

In the summer of 1882, and again from the spring of 1887 to the fall of 1889, I was Assistant Agent of the Alaska Commercial Company upon St. Paul Island, and worked four sealing seasons in charge of a gang of natives engaged in seal killing. The work Management.

was done under the general direction of the Superintendent of the Sealeries, who placed a "boss," or leader, at the head of each gang of men. It was the business of the "boss" to divide his gang in proper proportions—into "killers," "rippers," and "skinners." The "killers" were Killers, rippers, and skinners. generally the same men day after day through the season. They became very expert in the management of the drove and the use of the seal club, and very rarely made the mistake of hitting a seal that was not wanted.

The "boss" told his men in a general way what class of seals to kill, and worked with them. If they had any doubt whether a certain animal should be knocked down they appealed to him for explicit directions. The work thus went forward in a very systematic, orderly way. The same care was exercised in cutting out the drove of "bachelor" or killable seals from the borders of a Driving. rookery and in bringing them up to the killing ground. Active young men were selected for this service, and placed in charge of a Chief, whose orders they implicitly obeyed.

The driving was done mostly in the night, and in dry or warm weather was a slow and tedious process; yet the men were very patient with their charge, moving them only at such rate as they could go without becoming over-heated, and taking advantage of every stretch of moist ground or pool of water to cool them off, and sometimes going themselves in the water up to their necks in order to give the animals a cold bath and take them out of the water and continue the journey. Any representation that the seals were over-driven or over-heated, to their subsequent injury, is drawn from No overdriving. the imagination. Sometimes a drove would be caught upon a dry stretch of ground in unusually warm weather, and a few of them perish, but this did not often happen.

In 1882 there was no scarcity of killable seals. The men drove up as many every day as they could handle, and those selected for killing comprised only the choicest ones. No scarcity of killable seals in 1882.

There seemed to be also a large surplus of full grown bulls for rookery service, and enough escaped from the slaughter ground to keep the number good as the old ones passed the age of usefulness. I do not believe the condition of the rookeries nor the manner of driving and killing the seals at this time could have been improved. It was perfect in every respect, and the lessees, employés, and natives, as well as the seals, all appeared to be and were, I believe, contented and happy. Sufficient bulls.

In 1886 the conditions had somewhat changed. The natives complained that big seals were growing scarcer, that there were many dead pups on the rookeries, and the Superintendent intimated to me that he did not like the outlook as compared with a few years previous, and said he thought either the number killed or the size of the animals taken for their skins would have to be reduced if things did not improve. Still we had no particular scarcity of killable seals, and the work went on as during my first year (1882) in the service.

But the trouble of which they complained grew more serious in the following years, and I think it was in 1888 the Superintendent told the "bosses" they must kill less large seals and more "yellow bellies," or two-year olds. In 1889 a very large proportion of the catch was made up of this class.

It was then perfectly apparent to everybody, myself included, that the rookeries were "going to the bad," and that a smaller number must inevitably be killed the following year.

The work of herding and managing seals does not differ materially from that pursued with the stock-farm animals with which we are most familiar. The herdsman has chiefly to learn their quick motions and propensity to bite in order to handle them at will.

I tried to thoroughly train the young seals, hoping to make valuable pets of them, and succeeded as far as the taming went, but could not get them to thrive on cows milk or the condensed milk of commerce administered from a nursing bottle. They became, however, very tame, stopped trying to bite unless they were made angry by rough usage, and followed me about like pups of the canine species. When they are older and before they leave the island in the fall they may still be handled with impunity, and their habits are such of massing and herding by themselves apart from the older seals, that all could be easily "rounded up" from the beaches in favorable weather and "corralled" and marked.

It would be perfectly feasible to drive them into and keep them in such a corral or inclosure as would be constructed for calves or lambs, surrounded by a fence 3 or 4 feet high, and while there to catch each one and brand him. This has already been successfully done on a small scale by naturalists who wanted to identify certain ones for a future purpose.

This is not mere theory with me, for I was bred to the management and handling of young domestic animals, and have handled the young seals, and have seen them handled by the natives in the same way.

There were a great many dead pups on the rookeries during my last three years on St. Paul Island. Many of them wandered helplessly about, away from the groups or "pods" where they were accustomed to lie, and finally starved to death. We knew at the time what killed them, for the vessels and boats were several times plainly in sight from the Island shooting seals in the water, and the Revenue Cutters and Company's vessels arriving at the island frequently reported the presence in Bering Sea and sometimes the capture of these marauding crews. If all had been captured and the business broken up the seal rookeries would be healthy and prosperous to-day, instead of being depleted and broken up. I speak positively about it, because no other cause can be assigned for their depletion upon any reasonable hypothesis.

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Good management upon the island increased the seal life for many successive years, and the same management continued, as I believe, to the present time. If the destruction of seals at sea is wholly suppressed it will result in restoring the rookeries to their former productiveness. But no partial measure of protection should be undertaken, because it can not be enforced.

Increase under good management.

During the summer months fogs envelope the Seal Islands or cover the sea a short distance from them a considerable portion of the time. Sealing vessels are enabled thereby to carry on their work without detection at almost any point, and could and would, I believe, cross any boundary line that might be drawn about the islands, and catch seals at will inside of it. I do not think sealing can be, with safety to the rookeries, permitted in any part of the sea. If the sealers are given an inch they will take an ell and destroy all.

Fogs surround islands.

A zone will afford no protection.

Absolute prohibition in Bering Sea necessary.

WATSON C. ALLIS.

Subscribed and sworn to before me this 5th day of July, 1892.

[SEAL.]

E. H. THARP,

Notary Public in and for said city and county of San Francisco.

Deposition of Kerrick Artomanoff, native chief, resident of St. Paul Island.

PELAGIC SEALING. MANAGEMENT.

ALASKA, U. S. A.,

St. Paul Island, Pribilof Group, ss:

Kerrick Artomanoff, being duly sworn, deposes and says: I am a native Aleut, and reside on St. Paul Island, Pribilof Group, Alaska; I was born at Northeast Point, on St. Paul Island, and am 67 years of age. I have worked on the sealing grounds for the last fifty years, and am well acquainted with the methods

Experience.

adopted by the Russian and American Governments in taking of fur-seal skins and in protecting and preserving the herds on the island. In 1870, when the Alaska Commercial Company obtained the lease of the Islands, I was made Chief, and held the position for seventeen years.

It was my duty as Chief to take charge of and conduct the drives with my people from the hauling to the killing grounds.

Driving.

The methods used by the Alaska Commercial Company and the American Government for the care and preservation of the seals were much better than those used by the Russian Government. In old Russian times we used to drive seals from Northeast Point to the village, a distance of nearly 13 miles, and we used to drive 5 or 6 miles from other hauling grounds; but when the Americans got the Islands they soon after shortend all the drives to less than 3 miles.

Improvement over Russian methods.

Drives shortened.

From 1870 to 1884 the seals were swarming on the hauling grounds and the rookeries, and for many years they spread out more and more. All of a sudden, in 1884, we noticed there was not so many seals, and they have been decreasing very rapidly ever since. My people won-

Large supply of seals formerly.

Decrease since 1884.

Pelagic sealing the cause.

Destruction of females.

Males remain on the islands.

Dead pups.

to year since 1887, and in 1891 the rookeries were covered with dead pups. In

No sickness.

and have never seen any dead pups on the rookeries except a few killed by the old bulls when fighting or by drowning when the surf washed them off.

Decrease of three-quarters.

one-fourth as many seals in 1891 as there was in 1880.

The fur-seal goes away from the island in the fall or winter and he returns in May or June, and I believe he will haul up in the same place each year, for I particularly noticed

Departure and return of seals.
Return to same places.

those we do not

Birth of pups.

Swim when 6 weeks old.

surf wash some of the young pups into the sea, and they drowned in a very short time. In four or five days after it is born, the mother seal

Mothers seek food in water.

seals know their

Mothers nurse only their own pups.

edge until they

Departure of pups.

Migration.

all winter if the

When they come back to the Islands they come from the south, and I think they come from the North Pacific Ocean, over the same track that they went. The females go upon the rookeries as soon as they arrive here, but the yearlings do not come on land till the last of July, and yearling males and females herd together. I think they stay in the water most of the time the first year, but after that they come regularly to the hauling grounds and rookeries, but do not come as early in the season as they do after they are 2 years old. Male seals from 2 to 6 years old do not go on the breeding rookeries, but haul out by themselves. The female seal gives birth to but one pup every year, and she has her first pup when she is 3 years old. The male seal establishes himself on

Return by same track.

Go on rookeries.

Habits of young seals.

that they come regularly to the hauling grounds and rookeries, but do not come as early in the season as they do after they are 2 years old. Male seals from 2 to 6 years old do not go on the breeding rookeries, but haul out by themselves. The female seal gives birth to but one pup every year, and she has her first pup when she is 3 years old. The male seal establishes himself on

Each female has but one pup every year.

dered why this was so, and no one could tell why until we learned that hunters in schooners were shooting and destroying them in the sea. Then we knew what the trouble was, for we knew the seals they killed and destroyed must be cows, for most all the males remain on or near the islands until they go away in the fall or fore part of the winter. We also noticed dead pups on the rookeries, that had been starved to death. These dead pups have increased from year to year since 1887, and in 1891 the rookeries were covered with dead pups. In my sixty-seven years, residence on the Island I never before saw anything like it. None of our people have ever known of any sickness among the pups or seals and have never seen any dead pups on the rookeries except a few killed by the old bulls when fighting or by drowning when the surf washed them off. If they had not killed the seals in the sea there would be as many on the rookeries as there was ten years ago. There was not more than one-fourth as many seals in 1891 as there was in 1880.

The fur-seal goes away from the island in the fall or winter and he returns in May or June, and I believe he will haul up in the same place each year, for I particularly noticed some that I could tell that hauled up in the same place for a number of years; and when we make drives, kill, but let go into the water, are all back where we took them from in a few hours. The pups are born between the middle of June and the middle of July, and can not swim until they are 6 or 7 weeks old; and if born in the water they would die. I have seen the surf wash some of the young pups into the sea, and they drowned in a very short time. In four or five days after it is born, the mother seal leaves her pup and goes away in the sea to feed, and when the pup is 2 or 3 weeks old the mother often stays away for five or six days at a time. The mother seals know their own pups by smelling them, and no seal will allow any but her own pup to suck her. When the pups grow to be 6 or 8 weeks old they form in "pods" and work down to the shore, and they try the water at the edge until they learn to swim. They will remain on the Island until November, and, if not too cold, will stay till December. I have seen them swimming around the island late in January. All the seals, when they leave the Island, go off south, but I think they would stay around here all winter if the weather was not so cold.

When they come back to the Islands they come from the south, and I think they come from the North Pacific Ocean, over the same track that they went. The females go upon the rookeries as soon as they arrive here, but the yearlings do not come on land till the last of July, and yearling males and females herd together. I think they stay in the water most of the time the first year, but after that they come regularly to the hauling grounds and rookeries, but do not come as early in the season as they do after they are 2 years old. Male seals from 2 to 6 years old do not go on the breeding rookeries, but haul out by themselves. The female seal gives birth to but one pup every year, and she has her first pup when she is 3 years old. The male seal establishes himself on

the breeding rookery in May or June, when he is 7 or 8 years old, and he fights for his cows, and does not leave the place he has selected until August or September. Our people like the meat of the seal, and we eat no other meat so long as we can get it.

Males in rookeries.

Seals as food.

The pup seals are our chicken meat, and we used to be allowed to kill 3,000 or 4,000 male pups every year in November, but the Government agent forbade us to kill any in 1891, and said we should not be allowed to kill any more, and he gave us other meat in place of "pup" meat; but we do not like any other meat as well as pup-seal meat. We understand the danger there is in the seals being all killed off and that we will have no way of earning our living. There is not one of us but what believes if they had not killed them off by shooting them in the water there would be as many seals on the island now as there was in 1880, and we could go on forever taking 100,000 seals on the two Islands; but if they get less as fast as they have in the last five or six years there will be none left in a little while.

Pups as food.

Killing of pups for food stopped.

Pelagic sealing cause of decrease.

Otherwise 100,000 limit could be maintained.

KERRICK ARTOMANOFF.

Subscribed and sworn to before me, an officer empowered to administer oaths, under section 1976, Revised Statutes of the United States, this 8th day of June, 1892, at St. Paul Island, Alaska.

WM. H. WILLIAMS,

Treasury Agent in Charge of Seal Islands.

Deposition of Milton Barnes, special employé of U. S. Treasury on St. Paul Island.

PELAGIC-SEALING.

TERRITORY OF ALASKA, U. S. A.,
St. Paul Island, ss:

I, Milton Barnes, being duly sworn according to law, depose and say as follows: I am a citizen of the United States, and when at home reside near Columbus, Ohio. Have been temporarily stationed during the last year on the Island of St. Paul, one of the fur-seal or Pribilof Group in Bering Sea, as a special employé of the United States Treasury Department on said island.

Experience.

One day, during the latter part of August or fore part of September last (exact date forgotten), Col. Joseph Murray, one of the Treasury agents, and myself, in company with the British Commissioners, Sir George Baden-Powell and Dr. Dawson, by boat visited one of the seal rookeries of that Island, known as Tolstoi or English Bay. On arriving there our attention was at once attracted by the excessive number of dead seal pups whose carcasses lay scattered profusely over the breeding ground or sand beach bordering the rookery proper, and extending into the border of the rookery itself. The strange sight occasioned much surmise at the time as to the probable cause of it. Some of the carcasses were in an advanced stage of decay, while others were of recent death, and their general appearance was that of having died of starvation. There were a few that still showed

Dead pups.

signs of life, bleating weak and piteously, and gave every evidence of being in a starved condition, with no mother seals near to or showing them any attention.

Dr. Dawson, while on the ground, took some views of the rookery with his kodak; but whether the views he took included the dead pups I could not say. Some days after this—can not state exact date—I drove with Mr. Fowler, an employé of the lessees, to what is known as Half-Way Point, or Polovina rookery. Here the scene was repeated, but on a more extensive scale in point of numbers. The little carcasses were strewn so thickly over the sand as to make it difficult to walk over the ground without

Beach covered with dead pups.

stepping on them. This condition of the rookeries in this regard was for some time a common topic of conversation in the village by all parties, including the more intelligent ones among the natives, some of whom were with Mr. J. Stanley Brown in his work of surveying the island, and brought in reports from time to time of similar conditions at substantially all the rookeries around the Island. It could not, of course, be well estimated

Same thing at all other rookeries.

as to the number thus found dead, but the most intelligent of the natives—chief of the village—told me that in his judgment there were not less than 20,000 dead pups on the various rookeries of the island and others still dying. Dr. Ackerly, the lessees' physician at the time, made an autopsy of some of the carcasses, and reported that he could find no traces of any diseased condition whatever, but there was an entire absence of food or any signs of nourishment in the stomach. Before Dr. Dawson left I called his attention to what Dr. Ackerly had done, but whether he saw him on the subject I can not tell. And further deponent sayeth not.

20,000 dead pups.

No disease, but absence of nourishment.

MILTON BARNES.

Subscribed and sworn to before me, an officer empowered to administer oaths under section 1976, Revised Statutes of the United States, this 23d day of June, 1892.

WM. H. WILLIAMS,
Treasury Agent in Charge of Seal Islands.

Deposition of Karp Buterin, head chief on St. Paul Island, in charge of driving.

MANAGEMENT AND HABITS.

ALASKA, U. S. A.,

St. Paul Island, Pribilof Group, ss :

Karp Buterin, being duly sworn, deposes and says: I am 39 years of age and I was born on St. Paul Island, Alaska, and I have always lived here. I have a practical knowledge of the fur-seal industry as it is done on St. Paul Island, for I have been working at it all of my life since I was able to work. I have driven seals and clubbed and skinned them; I have had charge of the drives and I have been second chief for four years, and I am head chief now, being elected in 1891. As chief it is my duty to see that the rookeries are not troubled by anyone, to teach my people to

Experience.

obey the law and my young men how to drive seals to the killing grounds without injuring them. I know, and all my people know, that the Government told us we must not kill cows, and we never kill them. Instructed not to kill cows.

The Company Agent says to me: "Karp, be careful that no cows are killed." I know, and we all know, if we kill cows the seals soon die out and we would not have meat to eat; and if anyone told me to kill cows I would say "No." If I or any of my people knew of anyone killing a cow we would go and tell the Government officer. The Government officer told us that the Government did not like to have cows killed, and that we should not kill any more pups because it was wasting seals, and that the Government would give us plenty of other meat instead of pup meat, and we all agree to that, and we have not killed any pups since. And all my people will do everything the Government wants them to do. If any of our men get bad and kill cows or pups or do anything bad I punish them and I bring them before the Government officer. Or pups.

Our priest tells us to obey the law and to do everything the Government asks us to do, and we are all pleased to do it. We all know that the food and clothes we are getting has been given us by the Government, because we are not killing any seals to earn money to buy things for ourselves, and we know it is the Government sends us plenty coal when we have no money to buy it.

When we first noticed that the seals on the rookeries were not so many as they used to be we did not know what was wrong, but by and by we found that plenty of schooners came into the sea and shot seals, and we often found bullets and shot in seals when we were skinning them. Decrease, cause of.

And then we found plenty dead pups on the rookeries, more and more every year, until last year (1891) when there were so many the rookeries were covered with them, and when the doctor (Akerly) opened some of them there was no milk or food in their stomachs. Then we all knew the cows had been shot when they went into the sea to feed, and the pups died because they had nothing to eat. Plenty schooners came first about eight or nine years ago, and more and more every year since; and the seals get less and less ever since Schooners came; and my people kept saying "no cows," "no cows." Dead pups.

First the cows get less, and then the "bachelors" get less, and the company agent he says "kill smaller seals," and we kill some whose skins weigh only $4\frac{1}{2}$ pounds, instead of 7 pounds, same as they always got. Then we could not get enough of seals, and at last we could hardly get enough for meat. Females feeding.

Schooners kill cows, pups die, and seals are gone. Some men tell me last year "Karp, seals are sick." I know seals are not sick; I never seen a sick seal, and I eat seal meat every day of my life; all our people eat seal meat, white men eat seal meat, no one ever seen bad seal meat or sick seal. No big seals die unless we club them, only pups die when starved, after the cows are shot at sea. When we used to kill pups for food in November they were always full of milk; the pups that die on the rookeries have no milk. The cows go into the sea to feed after the pups are born, and the schooner men shoot them all the time. Decrease in size of seals killed on islands.

The "Holluschickie" (bachelors) do not go out to feed. When they No diseases among seals.

Females feeding.

Bachelors do not feed. come in May there is plenty of fish in their stomachs, but after June there is nothing. Plenty of bulls all the time on the rookeries, and plenty bulls have no cows.

Abundance of bulls. I never seen a 3-year-old cow without a pup in July; only 2-year-olds have no pups.

All the drives are under the care of the Chief and my men never drive too fast. No drive on St. Paul Island longer than 2 miles. We never make more than two drives from the same rookery in one week.

Driving.

When I was a boy, before Americans came here, we used to drive from the rookeries at Northeast Point to the village killing grounds, a distance of 12 miles, and from Halfway Point a distance of 6 miles, and from Zapadni a distance of 5 miles. After the Americans came the drive from Northeast Point was stopped at once and a salt house was built at Northeast Point and the seals have been killed there ever since within about 2 miles of the hauling grounds.

In 1874 or 1875 the seals were killed within a mile of the hauling grounds at Zapadni, and the skins have been taken ever since in boats across the bay to the village salt house. In 1879 a salt house was built at Halfway Point, and since then no seals have ever been driven on St. Paul Island more than 2 miles.

No seals are injured by driving, for we drive very slow and only when the weather is cool. Once in a while one may be smothered and we skin it and count the skin along with the others. After the cows scatter in August they mix with the bachelors and a few will be driven when we drive seals for food, and sometimes one is killed by accident before the clubber knows it is a cow. If I knew that he killed it on purpose I would punish him; and if he did it again I would have him put off the island.

The pups are born in June and July and they learn to swim in September. They can not swim when they are born and they can not help themselves, and they do not eat or drink only as they suck the cows. No cow will let another pup suck her; every cow feeds her own pup.

Pups can not swim.

Cow suckles only her own pup.

The pups leave in November and all seals are gone about the middle of December, except when the weather is very fine, and then we often kill seals in January.

Migration of pups.

KARP BUTERIN.

Subscribed and sworn to before me, an officer empowered to administer oaths under section 1976 of the Revised Statutes of the United States, this 9th day of June, 1892, at St. Paul Island, Alaska.

WM. H. WILLIAMS,
Treasury Agent in Charge of Seal Islands.

Deposition of Carlos G. Calkins, Lieutenant, U. S. Navy.

PRIBILOF ROOKERIES.

Carlos G. Calkins, being duly sworn, deposes and saith: I am a lieutenant in the U. S. Navy, and have made three cruises into Alaskan waters, as follows, viz, in the year 1890, about the Bristol Bay region and the Aleutian Islands as far west as Umnak; in the year 1891, to the Pribilof Islands, in Bering Sea; and

Experience.

in the year 1892, from Kadiak Island to Prince William Sound, going as far into Cook's Inlet as Coal Bay.

I never saw nor heard of any fur-seal rookeries in these regions, except those on the seal islands of Bering Sea. Neither have I ever seen any fur-seals in abundance save on or near said seal islands.

Rookeries only on
Pribilof Islands.

CARLOS G. CALKINS.

Subscribed and sworn to before me this 27th day of April, 1892.

JOSEPH MURRAY,

United States Treasury Agent.

Deposition of Herbert V. Fletcher, chief mechanic on St. Paul Island.

MANAGEMENT AND HABITS.

STATE OF VERMONT,

County of Orange, ss :

Herbert V. Fletcher, being duly sworn, deposes and says: I am a citizen of Randolph, Vt., where I have had my home nearly all my life. I am by trade a machinist and blacksmith, and by occupation a farmer.

In 1882 I went to St. Paul Island in the service of the Alaska Commercial Company, as their chief mechanic, and remained there two years and four months, including the sealing seasons of 1882, 1883, and 1884. During such season of each of these years, I was employed a considerable portion of the time in the annual seal killing, and at other times my work took me frequently to the various parts of the island, so that in the course of my stay there I became, as all do who live there a year or more, very familiar with everything pertaining to the seals.

Experience.

At the time of my employment at the island, everything about the seal rookeries and sealing industry appeared to be in a highly prosperous condition. There was no lack of seals. The rookeries were said by all the natives and residents to be as large and full as they had ever been, and the lessees got their full number of skins allowed by law within the usual time, all of good marketable sizes, from such sized animals as the employes were told to kill, and had a large surplus left each year for breeders. The manner in which the seals were driven and killed seemed to me to be as good as could be adopted, and just such as any one would adopt who was accustomed to the management of farm animals. I was surprised to see how closely in nearly every respect the seal herds resemble droves of our domestic animals. Almost anything is done with them that we habitually do with our flocks and herds in farm life, except to feed them. They are started up from the beaches, collected in convenient sized droves, and driven by a very few men to the proper killing grounds, exactly as I would handle a flock of sheep; and, unless the weather was very hot and dry, seemed to me to suffer no more nor stand any greater risk of injury from driving than sheep would and do under similar circumstances. When they arrive at the killing grounds they can be kept in a yard or corral surrounded by an ordinary cattle fence; but, without the trouble even of building a fence, with a single keeper to watch them and a few pieces of board set up

Prosperous condition of rookeries and sealing industry.

Driving and killing.

Resemblance between seals and domestic animals.

around them on which some strips of sacking or old garments are hung, several thousand are herded and kept for hours, until the time, perhaps on the following day, for their slaughter. They grow very tame and tractable by repeated driving, and even the old bulls lose their fierceness and seldom turn upon their herders, particularly when brought in from the rookeries near the villages, where they become most familiar with man.

They seem never to be afflicted with any disease. The pups are

Health of seals.

always healthy, fat, and happy; the males too young for slaughter play about on the rookeries during the killing season and between the intervals of driving to the killing ground, galloping up and down the slopes or wrestling in good-natured contest, as the young of other animals do when undisturbed, showing no signs of fear or timidity. The still younger seals, during their first few weeks, have so little fear of man that they may be picked up at any time more readily than young lambs; and when a little older, after they have learned to swim, they come by thousands upon the beaches close to the village and may be driven up en masse and taken to a corral and impounded, or simply herded by a watchman and kept together for an indefinite length of time. When so herded

Possibility of branding or marking.

they may be readily taken up one by one and marked by some mutilation, such as the cutting off an ear, as has been practiced on one or two occasions, I am told, for the purpose of identifying them afterwards, or by branding them. From my experience, with both seals and cattle, I should as soon undertake to brand a lot of young seals as so many calves; and I believe by attempting it at the proper season, after the old seals have mostly left the island, and the young are "podding" by themselves, there would be no difficulty in "rounding up" simultaneously nearly all the young born in a single season and marking them for complete future identification.

Breeding.

Their habits of breeding are so nearly like those of domestic animals that one having them in control needs only to follow his experience as a shepherd or "cattleman" to cause them to become most prolific. He must keep all the females and kill off, as far as possible, all the surplus males above the number absolutely required for breeding purposes. I think these requirements were very exactly fulfilled by the late lessees of the seal fisheries during the time of my employment by them; and they are certainly able to point to the fact, unless I am grossly misinformed, that from 1870,

Steady increase of herd from 1870 to 1884.

when they first took hold of the business, up to the end of my service for them in 1884, the system pursued by them was as perfect as it could be, and resulted in a steady increase of the seals. They failed only in omitting to take proper measures by branding or mutilation, as I have pointed out, to identify their property while pasturing in the ocean. The owner

Identification of property by branding or other marking.

of a seal skin with an ineffaceable brand on it would, even in a foreign country, I imagine, have some sort of property right which international law would recognize; and of his ability to mark nearly every skin with such a brand upon the live young animal I have not the slightest doubt.

HERBERT V. FLETCHER.

Subscribed and sworn to this 18th day of June, A. D. 1892, at Randolph, Vt., before me.

[L. S.]

WM. H. DU BOIS,
Notary Public.

Deposition of John Fratis, resident on St. Paul Island, and employé of lessees.

MANAGEMENT AND HABITS.

ALASKA, U. S. A.,

St. Paul Island, Pribilof Group, ss :

John Fratis, being duly sworn, deposes and says: I am 47 years of age and was born on the Ladrone Islands. I can speak the English, Russian, and Spanish languages, and I understand the "Aleut" as it is spoken by the natives of St. Paul Island, Alaska. Experience.

I came to St. Paul Island in 1869, and married a native woman and became one of the people; was made a native sealer and have resided here ever since.

From 1859 to 1869 I was employed on whaling vessels working in Bering and Okhotsk seas and the Arctic Ocean. I have been along the coast of Bering and Okhotsk seas, and along the coast of Alaska in the North Pacific Ocean from Sitka to Unalaska, and I never saw or heard tell of any place in American waters in that whole region, where the Alaskan fur seals haul out on land or breed, excepting on the seal islands of Bering Sea known as the Pribilof Islands. Haul up or breed only on Pribilof Islands.

From the time I settled here in 1869 until 1882 or 1883, there was no trouble at all in taking 85,000 seals on St. Paul Island between June 1 and July 30, and we often got that number by July 20. No trouble in taking 85,000 seals a year for 1869 to 1882 or 1883.

In those days we used to get plenty of seals on the Zoltoi sands near the Reef rookery, and now there are none there. I have worked on the sealing grounds at everything there is to do, from driving to clubbing, and preparing the skins for shipment.

When Mr. Webster had charge of the killing at Northeast Point, where he used to kill from 25,000 to 35,000 seals in a season, I generally did the cooking there, and I cooked seal meat every day, and we all ate it, and our people live on seal meat, yet I never saw a sick or a diseased seal or a carcass that was unfit for food. Never saw a sick or diseased seal.

I have driven seals from all the rookeries and under the directions of several chiefs, and I know the orders were always very strict about the care we must take of the seals on the road. No drives were made in warm weather; the seals were not hurried, but every once in awhile they were allowed to stop and rest. The men who did the driving were relieved from time to time, so that no man should get too cold on the drive, and when the sun came out warm the drive was always abandoned and the seals allowed to go into the sea. I never saw the seals overdriven or overheated, nor have I ever seen a seal die on the drive except one or two occasionally smothered. Driving.

The drivers carry their knives along, and when a seal dies they skin him and the skin is brought to the salt house and counted in with the others.

An overheated seal would not be worth skinning, and for that reason the company agent is particular that the seals are not overheated. I have clubbed seals, too, and at present I am a regular clubber.

We know a cow seal on sight, and when we find one on the killing grounds we take care she is not injured. Very few cows get into the drives before the middle of August, and then we are only driving and killing a few hundred a week for food.

All cows killed on the seal islands are killed accidentally, and it occurs so seldom that I do not think there has been to exceed 100 since I came to the island in 1869. So carefully has this been guarded that when we used to be allowed to kill pup seals in November we had to examine and separate the sexes and kill none but males.

No cows killed except by accident.

The seals came to the islands in spring and they came from the southward.

Arrival of seals.

The first bulls arrive late in April or very early in May, and they are coming along till June. The bachelors come in May, the older ones first, and they continue coming till July, when the younger ones arrive. The cows appear about the 10th of June, and they are all on the rookeries about the middle of July.

Bulls.

Bachelors.

Cows.

The pups are born soon after the arrival of the cows, and they are helpless and can not swim, and they would drown if put into water. The pups have no sustenance except what the cows furnish and no cow suckles any pup but her own. The pups would suck any cow if the cow would let them.

Pups, birth of.

Can not swim.

After the pup is a few days old the cow goes into the sea to feed and at first she will only stay away for a few hours, but as the pup grows stronger she will stay away more and more until she will sometimes be away for a week.

Females feeding.

I do not think the bachelors go to feed from the time they haul out until they leave the islands in November, for I have observed the males killed in May are fat and their stomachs full of fish, mostly codfish, while the males killed in July and afterwards are poorer and poorer and their stomachs are empty. I know the bulls do not eat during their four months' stay on the islands.

Bachelors do not leave islands to feed.

In August the families, or harems, break up and the cows scatter all over the rookeries, and the bulls begin to go away late in August and all through September, so that very few are left in October. The cows and bachelors begin to leave in October and November, but their going is regulated somewhat by the weather.

Migration.

Cold stormy weather, with sudden heavy frost, will drive them off sooner, so that the islands will be deserted by December 15, while warm weather will keep plenty of bachelors here until late in January, when I have known them to be driven and killed for food. When the seals leave the island they go southward and through the passes of the Aleutian Islands into the Pacific Ocean.

It was in 1884 that I first noticed a decrease in the seals, and it has been a steady and a very rapid decrease ever since 1886, so that at present there is not one quarter as many seals on the island as there was every year from 1869 to 1883.

Decrease.

I have known of one or two schooners operating in Bering Sea as early as 1877 or 1878, and they were on the rookeries occasionally during the past ten years; but they can not damage the seal herd much by raiding the rookeries, because they can not take many, even were they permitted to land, which they are not by any means.

Raids.

The schooners increased every year from the time I first noticed them until in 1884 there was a fleet of 20 or 30, and then I began to see more and more dead pups on the rookeries, until in 1891 the fleet of sealing schooners numbered more than a hundred and the rookeries were covered with dead pups.

Dead pups and increase of sealing fleet.

It is my opinion that the cows are killed by the hunters when they go out in the sea to feed, and the pups are left to die and do die on the island. Females killed while feeding.

I never knew of a time when there were not plenty of bulls for all the cows, and I never saw a cow seal—except a two-year old—without a pup by her side in the proper season. Plenty of bulls.
I never heard tell of an impotent bull seal, nor do I believe there is such a thing, excepting the very old and feeble, or badly wounded ones. I have seen hundreds of idle vigorous bulls upon the rookeries, and there were no cows for them. I saw many such bulls last year.

The pups do not learn to swim until they are 6 to 8 weeks old, and after learning they seem to prefer to be on the land; and I think they would not leave the islands only for the cold weather, or it may be they follow the cows to sea after being weaned. Pups learning to swim.

If the seal were let alone in the water we could manage them so as to again build up the rookeries. We are so familiar with their habits and they are so accustomed to us that there is no difficulty in managing them so as to make them increase. They are easy to handle, the little pups are not shy of us, and even when they are older in the fall they can be handled much easier than sheep. I can manage seals better than I can some of the sheep brought on the islands and which I have been sent to catch. Protection necessary.

JOHN FRATIS.

Subscribed and sworn to before me, an officer empowered to administer oaths under section 1976, Revised Statutes of the United States, this 10th of June, 1892, at St. Paul Island, Alaska.

WM. H. WILLIAMS,
Treasury Agent in charge of Seal Islands.

Deposition of Henry A. Glidden, Treasury agent on St. Paul Island.

HABITS. MANAGEMENT. PELAGIC SEALING.

DISTRICT OF COLUMBIA,
City of Washington, ss:

Henry A. Glidden, being duly sworn, deposes and says: I reside at Albion, in the State of New York, am 61 years of age, a lawyer by profession, and am not in the employ of the United States Government. Experience.
I was appointed special Treasury agent in charge of the seal islands under Secretary Folger. On May 31, 1882, I arrived on St. Paul Island, and remained there until June 3, 1885, only returning once to the States to pass the winter of 1883-'84. I was located the entire time on St. Paul Island. During my experience there I examined carefully the rookeries on the island, as was necessary in connection with my duties as special Treasury agent, and incidentally studied seal life on the islands. I am unable to state whether the seals increased or not during my residence on St. Paul, but they certainly did not decrease, except perhaps there was a slight decrease in 1884. Decrease: none, except perhaps in 1884.
In all my conversations with the natives, which were, of course, a great many, they never spoke of the seals being on the decrease, as they certainly would have done if such had been the case. During these years there was always a sufficiency A sufficiency of bulls.

of vigorous male life to serve all the female seals which came to the islands, and certainly during this period seal life was not affected by any deficiency of males. I do not think that the number of seals on the rookeries can be even approximately estimated. No satisfactory

measurement of the breeding grounds on which to base estimate number of seals on islands. or an approximation of the number of seals has ever been or can be made. And, even if such measurement could be made, the broken nature of the ground, the inequality of distribution of the seals while on land, and the fact that the females are constantly coming and going, preclude the possibility of any sort of calculation which could be of any value at all.

During the time I was on the islands I only saw a very few dead pups on the rookeries, but the number in 1884 was slightly more than in former years. I never noticed or examined dead pups on the rookeries before 1884, the number being so small, but that year I examined them, and found them very much emaciated. In my judgment they were starved to death because their mothers had been killed while away from the islands in search of food.

Cow suckles only her own pup. This, perhaps, would not be so if a cow would suckle any pup that comes to her, but she will not, and on the contrary will beat off any young seal which endeavors to nurse from her except her own. I know a cow recognizes her pup, but a pup never seems to distinguish its mother from other cows which it comes in contact with. During the entire sealing season males of all classes remain on the islands, except that the bachelors once in a while go into the water, but remain in the vicinity of the islands. The females, on the contrary, are going and coming to and from the water for the purpose of feeding.

Females feeding. I believe it is while the females are thus going to and from the feeding grounds and through the Aleutian passes that they are intercepted and shot by open-sea sealers. A pup seal until it is six weeks or two months old never goes into the water, being evidently afraid to do so, and it is only after this ago that it begins by degrees to become acquainted with the sea. I am of the opinion if a pup got into the water that it would be drowned and therefore would perish if born in the water. For the first six or eight weeks of its life a pup is a land animal and in no way amphibious.

I became very familiar with the methods employed by the natives in taking the bachelor seals, which are the only ones killed on the islands, and I do not believe any improvement could be made in the methods. The driving from the hauling grounds to the killing grounds was always conducted with the greatest care; was done at night or very early in the morning, slowly and with frequent rests, so that the seals might not become overheated. During the killing the merchantable seals were always carefully selected. No

Management. Driving. the hauling grounds to the killing grounds was always conducted with the greatest care; was done at night or very early in the morning, slowly and with frequent rests, so that the seals might not become overheated. During the killing the merchantable seals were always carefully selected. No

Killing. females were killed, except perhaps one or two a season by accident, and the remainder of the herd were allowed to return to the water or hauling grounds. Very few seals were killed in a "drive," and the skins of these were, in nearly every case, retained and counted in the quota allowed to be taken by the lessees. The number of seals killed in this way could not possibly have affected seal life on the island. I never saw or heard of a case where a male seal was seriously injured by driving or redriving. And I do not believe that the virility of males driven was destroyed by climbing over the rocks or affected in

any way by driving. Certainly the reproductive powers of male life on the islands were never decreased or impaired by these methods.

Another fact in this connection is that the lessees located the killing grounds as near the hauling grounds as seemed to be prudent without disturbing the breeding of the rookeries. That boats and teams were provided for transporting the skins to the salt houses from the killing grounds, thus avoiding long "drives." Raids on the rookeries by marauders did not, while I was on the islands, amount to anything, and certainly seal life there was not affected to any extent by such incursions. I only knew of one raid upon St. Paul Island while I was there. It was by a Japanese vessel, and they killed about one hundred seals, the carcasses of which we found on board when we captured the vessel. The Pribilof seal herd should be protected both in Bering Sea and the North Pacific Ocean, because the injury to seal life, bringing about a decrease in the size of the herd, is caused by the slaughter of females in the open sea. If the seals are thus protected and the existing methods and regulations are carried out on the islands the seal herd will not decrease, but on the contrary, in my opinion, will increase. If the seals are not protected in these waters, the herd will be exterminated in a very short time. It is only, therefore, by protecting the seals everywhere in the sea and ocean that seal life can be preserved.

No long drives.
Raids.

Protection neces-
sary.

HENRY A. GLIDDEN.

Subscribed and sworn to before me, a notary public in and for the District of Columbia, U. S. A., this 15th day of April, 1892.

[L. S.]

CHAS. L. HUGHES,
Notary Public.

Deposition of Charles J. Goff, Treasury agent in charge of Pribilof Islands.

PRIBILOF ROOKERIES.

DISTRICT OF COLUMBIA,
City of Washington, ss:

Charles J. Goff, of Clarksburg, W. Va., being duly sworn, deposes and says: I am 45 years of age. During the years 1889 and 1890 I occupied the position of special Treasury agent in charge of the Pribilof Islands. I was located on St. Paul Island, only visiting St. George Island occasionally. About the 1st of June, 1889, I arrived on St. Paul Island and remained there until October 12, 1889, when I returned to San Francisco for the winter. Again went to the islands in 1890, arriving there about the last week in May and remaining until August 12, 1890. Since that time I have never been on the islands. My principal observations as to seal life upon the islands were confined to St. Paul Island, as I only visited St. George Island occasionally.

Experience.

During my first year on the islands the Alaska Commercial Company was the lessee thereof, and during my second year the North American Commercial Company. In 1889 I made careful observations of the rookeries on St. Paul Island and marked out the areas covered by the breeding grounds; in 1890 I examined these lines made by me the former year and found a very great shrinkage in the spaces covered by breeding seals.

Decrease in breed-
ing area.

Difficult for company to obtain quota of skins.

In 1889 it was quite difficult for the lessees to obtain their full quota of 100,000 skins; so difficult was it in fact, that in order to turn off a sufficient number of four and five years-old males from the hauling grounds for breeding purposes in the future, the lessees were compelled to take about 50,000 skins of seals of one or two years of age. I at once reported this fact to the Secretary of the Treasury, and advised the taking of a less number of skins the following year. Pursuant to such report the Govern-

ment fixed upon the number to be taken as 60,000, and further ordered that all killing of seals upon the islands should stop after the 20th day of July. I was further ordered that I should notify the natives upon the Aleutian Islands that all killing of seals while coming from or going to the seal islands was prohibited. These rules and regulations went into effect in 1890, and pursuant thereto I posted notices for the natives at various points along the Aleutian chain, and saw that the orders in relation to the time of killing and number allowed to be killed were executed upon the islands. As a result of the enforcement of these regulations, the lessees were unable to take more than 21,238 seals of the killable age of

from one to five years during the season of 1890, so great had been the decrease of seal life in one year, and it would have been impossible to obtain 60,000 skins even if the time had been unrestricted.

The Table A appended to this affidavit shows how great had been the decrease on St. Paul Islands hauling grounds, bearing in mind the fact that the driving and killing was done by the same persons as in former years, and was as diligently carried on, the weather being as favorable as in 1889 for seal-driving. I believe that the sole cause of the decrease is pelagic sealing, which from reliable information I understand to have increased greatly since 1884 or 1885. Another fact I have gained from reliable sources is that the

great majority of the seals taken in the open sea are pregnant females or females in milk. It is an unquestionable fact that the killing of these females destroys the pups they are carrying or nursing. The result is that this destruction of pups takes about equally from the male and female increase of the herd, and when so many male pups are killed in this manner,

besides the 100,000 taken on the islands, it necessarily affects the number of killable seals. In 1889 this drain upon male seal life showed itself on the islands, and this, in my opinion, accounts for the necessity of the lessees taking so many young seals that year to fill out their quota.

As soon as the effects of pelagic sealing were noticed by me upon the islands I reported the same, and the Government at once took steps to limit the killing upon the islands, so that the rookeries might have an opportunity to increase their numbers to their former condition; but it will be impossible to repair the depletion if pelagic sealing continues. I have no doubt, as I reported, that the taking of 100,000 skins in 1889 affected the male life on the islands, and cut into the reserve of male seals necessary to preserve annually for breeding purposes in the future, but this fact did not become evident until it was too late to repair the fault that year. Except for the numbers destroyed by pelagic sealing in the years previous to 1889 the hauling grounds would not have been so depleted, and the taking of 100,000 male seals would not have impaired the reserve for breeding purposes or diminished to any

extent the seal life on the Pribilof Islands. Even in this diminished state of the rookeries in 1889 I carefully observed that in the majority of cases the four and five year old males were allowed to drop out of a "drive" before the bachelors had been driven any distance from the hauling grounds. These seals were let go for the sole purpose of supplying sufficient future breeders.

A few seals are injured by re-driving (often conflicted with over-driving and sometimes so called), but the number so injured is inconsiderable and could have no appreciable effect upon seal life through destroying the virility of the male.

Re-driving or over-driving.

The decrease, caused by pelagic sealing, compelled whatever injurious re-driving has taken place on the islands, as it was often necessary to drive every two or three days from the same hauling grounds, which caused many seals let go in a former "drive" to be driven over again before thoroughly rested. If a "drive" was made only once a week from a certain hauling ground, as had been the case before pelagic sealing grew to such enormous proportions and depleted the rookeries, there would be no damage at all resulting from re-driving.

In my opinion, pelagic sealing is the cause of re-driving on the islands, the depletion of the rookeries, and promises to soon make the Alaska fur-seal herd a thing of the past. If continued as it is to-day, even if killing on the islands was absolutely forbidden, the herd will in a few years be exterminated. I am, therefore, of the opinion that pelagic sealing should be absolutely prohibited both in Bering Sea and the North Pacific Ocean.

Prohibition necessary.

If this is done and a few years are allowed the seal herd to recover from the enormous slaughter of the past seven years, the Pribilof Islands will produce their 100,000 skins as heretofore for an indefinite period.

I hereby append to and make a part of this affidavit a table, marked A, giving the number of seals killed each day on the Island of St. Paul during the years 1889 and 1890 up to the 20th day of July.

Tables "A," "B" and "C."

I also append to and make a part of this affidavit a table, marked B, showing the killing of seals on the island of St. Paul up to July 20, for the years 1870 to 1890, inclusive, compiled from the records kept at the Government House on St. Paul Island.

I also append to and make a part of this affidavit a table, marked C, showing the daily temperature and state of the weather for the months of June and July during the years 1889 and 1890, compiled from observations taken by Dr. C. A. Lutz, on St. Paul Island.

CHARLES A. GOFF.

Subscribed and sworn to before me, a notary public in and for the District of Columbia, this 13th day of April, 1892.

SEVELLON A. BROWN,
Notary Public.

A.—Table showing the killing of fur-seals on St. Paul Island up to July 20, 1890, by the North American Commercial Company.

VILLAGE KILLING GROUND.

Date.	Number killed.	Date.	Number killed.
1889.		1890.	
June 5.....	291	June 6.....	116
10.....	120	11.....	574
12.....	947	13.....	132
14.....	792	16.....	317
15.....	340	17.....	167
17.....	895	18.....	274
18.....	1,161	20.....	339
19.....	1,561	21.....	292
20.....	253	23.....	521
22.....	1,353	24.....	426
24.....	2,578	25.....	266
25.....	979	26.....	117
26.....	1,314	27.....	396
27.....	311	28.....	206
28.....	1,349	30.....	209
29.....	1,038	Total.....	4,402
Total.....	15,162		
July 1.....	1,023	July 1.....	246
2.....	834	2.....	242
3.....	1,841	3.....	183
4.....	1,716	4.....	494
5.....	1,255	5.....	526
6.....	1,302	7.....	411
8.....	814	8.....	261
9.....	1,314	9.....	163
10.....	654	10.....	378
12.....	2,004	12.....	633
13.....	1,006	13.....	211
15.....	3,085	14.....	104
16.....	1,911	15.....	315
17.....	1,931	16.....	372
18.....	2,046	17.....	236
19.....	2,017	18.....	556
20.....	1,913	19.....	780
Total.....	26,666	Total.....	6,111

NORTHEAST POINT KILLING GROUND.

Date.	Number killed.	Date.	Number killed.
1889.		1890.	
June 17.....	1,054	June 17.....	16
18.....	1,270	18.....	78
19.....	494	20.....	438
21.....	1,205	21.....	96
24.....	754	23.....	179
25.....	1,407	24.....	205
26.....	441	25.....	166
27.....	844	27.....	230
28.....	479	28.....	79
29.....	335	30.....	98
July 1.....	1,200	July 1.....	131
2.....	968	2.....	96
4.....	1,559	3.....	180
5.....	1,524	4.....	321
6.....	376	5.....	74
8.....	914	7.....	336
9.....	641	8.....	379
10.....	800	9.....	271
13.....	793	10.....	112
15.....	1,838	13.....	658
16.....	1,156	15.....	245
17.....	948	16.....	312
18.....	1,282	17.....	485
19.....	834	18.....	405
20.....	243	19.....	446
Total.....	15,076	20.....	550
		Total.....	5,007

RECAPITULATION.

Total number of fur seal killed by lessees on St. Paul Island from June 1 to July 20.

1889	65,180
1890	17,105

B.—Table showing the beginning of each sealing season on the islands of St. Paul and St. George from 1870 to 1890, inclusive, and the number of fur-seals accepted by the lessees up to July 20 of each year.

Year.	St. Paul.		St. George.		Total skins accepted.
	Season began—	Skins accepted.	Season began—	Skins accepted.	
1870					
1871	June 1	29,788	June 4	12,604	42,392
1872	1	65,499	3	21,563	87,062
1873	3	68,035	4	17,362	85,397
1874	3	88,058	1	8,354	96,612
1875	1	83,890	1	10,000	93,890
1876	3	69,367	1	10,000	79,367
1877	4	58,732	1	15,000	73,732
1878	8	78,570	10	16,709	95,279
1879	2	80,572	3	20,569	101,141
1880	1	80,000	3	20,000	100,000
1881	6	80,000	9	20,000	100,000
1882	2	80,000	6	20,000	100,000
1883	4	60,101	4	11,123	71,224
1884	3	83,092	4	11,152	94,244
1885	3	70,451	1	15,000	85,451
1886	4	72,120	8	13,335	85,455
1887	1	77,389	9	13,381	90,770
1888	2	73,808	6	13,187	86,995
1889	1	68,485	4	10,138	78,623
1890	6	16,833	2	4,112	20,945

C—Table showing weather and temperature on St. Paul Island for June and July, 1889 and 1890.

Day of month.	1889.				1890.			
	June.		July.		June.		July.	
	Tempera- ture.	Weather.	Tempera- ture.	Weather.	Tempera- ture.	Weather.	Tempera- ture.	Weather.
	Max. Min.		Max. Min.		Max. Min.		Max. Min.	
1.....	42 33	Foggy	45 40	Clear	37 33	Snow	40 40	Fog.
2.....	40 35	Cloudy	48 40	Hazy	34 32	Hazy	48 40	Do.
3.....	44 38	do	48 42	do	41 33	Clear	46 40	Clear.
4.....	48 40	do	48 41	Clear	42 31	Fine	47 39	Do.
5.....	47 39	do	49 40	Hazy	42 32	Clear	50 40	Do.
6.....	50 34	do	42 40	do	43 31	Fog.	51 40	Do.
7.....	44 43	do	49 42	Thick fog.	44 38	Hazy	51 41	Do.
8.....	47 36	do	50 40	Rain	48 39	Rain	44 40	Do.
9.....	No record	do	45 42	Hazy	43 39	Thick fog.	46 41	Hazy.
10.....	44 38	Rain	49 42	Thick fog.	44 34	do	47 42	Do.
11.....	43 40	do	51 41	Fog.	43 37	do	48 43	Fog.
12.....	43 38	do	50 42	Clear	42 37	Fog.	51 41	Do.
13.....	38 37	do	50 40	do	43 37	do	48 43	Do.
14.....	43 37	do	49 40	do	43 38	do	44 43	Rain.
15.....	42 37	Thick fog.	52 42	do	48 39	Raining	45 43	Fog.
16.....	43 37	Rain	50 42	do	43 36	Fog.	44 41	Do.
17.....	46 38	Cloudy	47 43	Hazy	45 37	Rain	47 42	Do.
18.....	49 38	Rain	48 42	do	44 37	Clear	47 42	Do.
19.....	49 36	Clear	52 42	Fog.	40 37	Fog.	50 40	Do.
20.....	45 37	Cloudy	49 41	Clear	43 39	Fine	49 40	Do.
21.....	46 38	do	49 43	Thick fog.	45 40	Rain	54 44	Do.
22.....	45 38	do	50 44	Rain	49 40	Clear	56 43	Do.
23.....	40 38	Rain	48 42	Hazy	49 39	Hazy	53 45	Do.
24.....	42 39	Thick fog.	46 42	Fog.	42 38	Fog.	52 46	Do.
25.....	46 40	do	50 42	Hazy	45 40	do	52 45	Do.
26.....	49 40	Cloudy	44 44	Thick fog.	42 38	do	53 43	Do.
27.....	51 41	Clear	49 43	Hazy	44 39	do	53 46	Do.
28.....	50 41	do	48 43	Rain.	44 38	Hazy	49 45	Do.
29.....	50 40	Cloudy	48 42	Fog.	43 40	do	48 44	Do.
30.....	50 40	do	50 43	Hazy	42 39	do	48 40	Do.
31.....			49 42	Fog.			51 45	Do.

Deposition of Alexander Hansson, employé of lessees on St. Paul Island.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Alexander Hansson, having been duly sworn, deposes and says: I am

Experience.

34 years of age, a native of Sitka, Alaska, and was educated in the public schools of California, and afterwards attended school six years in Lovisa, Finland, returning to the United States in 1875, when 18 years old. I immediately took service as second mate on the schooner *Matthew Turner*, and later on the steamer *Dora*, vessels of the Alaska Commercial Company sailing to Alaska, and was employed a greater part of the time, for two years and a half, in the Unalaska district. In 1886 I went to St. Paul Island of the Pribilof group, and have since remained there constantly from that time until August, 1891. I was employed there in various occupations in connection with sealing, but chiefly in handling sealskins and as one of the "killing gang," and am familiar with every phase of the business.

In 1886 and 1887 there appeared to be enough seals, and the men were kept pretty steadily at work after the first few

Plenty of seals in 1886, 1887.

was no trouble

Decrease.

days of the season until the catch was completed. Good sized skins were taken in these years and there in getting them, but large seals grew very scarce on the island in 1888, and still more so in the three following years. The orders of the "boss" of the gang, in which I worked in 1888 and 1889, under the management of the Alaska Commercial Company, were not to kill the 5-year old bulls, because they were, he said, needed on the rookeries.

There were a good many dead pups on the rookeries every year I was on the island, and they seemed to grow more numerous from year to year. There may not, in fact,

Dead pups.

have been more of them, because the rookeries were all the time growing smaller, and the dead pups in the latter years were more numerous in proportion of the live ones. They were thin and poor, and appeared to have starved to death.

Rookeries smaller.

I am sure the size of the rookeries on St. Paul Island and the number of seals on them in 1891 were less than one half of their size and number in 1886.

The natives for whom I am entitled to speak, as being one of them, and receiving a share from the proceeds of the sealeries, protest that

Pelagic sealing.

the United States Government ought to have protected the rookeries against deep-sea seal fishing, because we believe the seals rightly belong to us and should not be killed when

Protection necessary.

they are away from their island home. We earnestly pray for the protection to which we are justly entitled.

ALEX. HANSSON.

Subscribed and sworn to before me this 30th day of April, A. D. 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public,

Deposition of Max Heilbronner, secretary of Alaska Commercial Company.

SEALSKIN RECORD OF ST. PAUL ISLAND, ALASKA, 1871 TO 1889.

Showing the dates, the rookeries from which the seals were driven, and the number killed from each drove, except that the catch at Northeast Point, is entered weekly, without designating the particular part of that rookery from which the animals were driven.

1871.

May	15. Reef and Tolstoy	175	Aug.	24. Zoltoy	122
	24. Reef	243		29. Zoltoy	53
June	1. Tolstoy	578	Sept.	4. Ketovy	189
	2. Reef	220		11. Zoltoy	158
	5. Reef	904		13. Northeast Point	52
	6. English Bay	1,680		18. Zoltoy	105
	9. Southwest Bay	969		26. Zoltoy	77
	10. Southwest Bay	1,730	Oct.	2. Lukanan	133
	13. Reef	861		9. Halfway Point	1,117
	15. English Bay and Tolstoy	1,130		10. Ketovy	1,300
	18. Reef	1,387		11. English Bay and Tolstoy	1,300
	20. Southwest Bay	1,069		13. English Bay and Tolstoy	1,326
	20. Southwest Bay	901		14. Reef	825
	22. Lukanan	1,283		16. Lukanan	631
	23. Tolstoy	495		17. Reef	683
	24. Reef	791		19. English Bay and Tolstoy	1,157
	24. Northeast Point	2,653		12. English Bay and Tolstoy	2,454
	27. English Bay	259		17. Northeast Point	1,490
	28. English Bay and Tolstoy	2,128		18. Northeast Point	732
	29. Reef	1,006		19. Northeast Point	1,436
	30. Tolstoy	274		21. English Bay and Tolstoy	3,412
July	1. Tolstoy	914		25. English Bay and Tolstoy	2,181
	3. Northeast Point	2,038		27. Reef	712
	5. Reef and Lukanan	808		27. Ketovy	1,420
	6. Reef and Lukanan	2,815		28. Reef	676
	7. Reef	1,187		28. Northeast Point	3,032
	8. Reef	751		28. English Bay	2,987
	17. Zoltoy	1,029	Nov.	6. Reef	718
	21. Lukanan and Tolstoy	1,922		16. English Bay	501
	22. Northeast Point	3,352	Dec.	19. Reef	644
	22. Ketovy	778		30. English Bay	486
	24. Zoltoy	1,172			
	26. Lukanan	1,788			
	28. Northeast Point	3,836			
	28. Tolstoy	1,388			
	31. Lukanan	650			
Aug.	11. Zoltoy	205			
	18. Zoltoy	150			
					77,620

1872.

May	11. Reef	227	June	21. Northeast Point	5,014
	24. Reef	455		22. Lukanan	521
June	1. Reef	759		24. Reef and Zoltoy	910
	3. Tolstoy	278		27. English Bay	4,615
	5. Reef	293		28. Tolstoy	1,315
	10. Tolstoy	209		28. Lukanan	318
	11. Southwest Bay	1,607		28. Northeast Point	5,109
	12. Reef	662		29. Lukanan	798
	13. English Bay	1,730	July	2. Zoltoy	1,839
	14. Tolstoy and Lukanan	1,048		5. English Bay	3,259
	14. Northeast Point	4,003		5. Northeast Point	5,117
	15. Reef	702		6. Zoltoy	1,640
	17. Zoltoy	388		9. English Bay	3,135
	19. English Bay	2,826		12. Lukanan and Zoltoy	2,060
	20. Reef and Zoltoy	1,166		13. English Bay	2,319
	21. Lukanan	1,702		15. Zoltoy	1,133

1872—Continued.

July 16. Halfway Point	1,659	Sept. 13. Lukanan	29
18. English Bay	2,313	20. Lukanan	11
19. Northeast Point	4,204	Oct. 10. Lukanan	10
19. Lukanan	836	22. Lukanan	17
22. Zoltoy	628	28. English Bay	1,255
25. Zoltoy	1,369	29. English Bay and Reef	664
25. English Bay	2,070	31. English Bay and Reef	11
29. Zoltoy	10	31. Northeast Point	1,680
Aug. 6. Zoltoy	119	Nov. 29. Tolstoy	395
14. Zoltoy	87	Dec. 5. Reef	66
16. Northeast Point	20	6. Tolstoy	391
19. Zoltoy	112		
29. Lukanan	151		
Sept. 6. Lukanan	55		75,352

1873.

May 23. Southwest Bay	96	July 7. Zoltoy and Lukanan	1,502
23. Reef	188	9. English Bay	2,485
June 3. Reef and Tolstoy	796	9. Northeast Point	1,614
4. Southwest Bay	700	14. Tolstoy	917
6. Reef and Tolstoy	916	15. Zoltoy	1,228
11. English and Southwest Bays	2,445	16. Lukanan	1,510
12. Reef and Zoltoy	1,656	17. English Bay	1,553
14. English Bay	2,016	18. Zoltoy	925
14. Northeast Point	3,242	19. Lukanan and Zoltoy	1,045
17. Tolstoy	1,758	19. Northeast Point	5,696
17. Reef and Zoltoy	455	21. English Bay	752
17. Lukanan	663	22. Lukanan and Zoltoy	1,926
20. Southwest Bay	3,910	23. Lukanan and Zoltoy	446
21. Zoltoy	650	23. Northeast Point	2,725
23. Tolstoy	1,787	Aug. 4. Zoltoy	173
23. Northeast Point	3,410	13. Zoltoy	144
25. English Bay	3,137	19. Zoltoy	65
27. Reef and Lukanan	2,191	25. Lukanan	72
28. Zoltoy	1,142	Sept. 1. Tolstoy	47
28. Northeast Point	5,020	9. Tolstoy	25
July 1. Tolstoy	1,838	Oct. 25. Tolstoy	11
2. Zoltoy and Lukanan	2,322	Dec. 9. Tolstoy	135
3. English Bay	1,927	20. Tolstoy	355
4. Zoltoy	2,194	30. Tolstoy	242
5. Zoltoy	693		
5. Northeast Point	4,662		75,437

1874.

April 27. Northeast Point	14	June 15. Reef and Zoltoy	889
May 6. Southeast Bay	407	17. English Bay and Tolstoy	2,689
19. Reef	336	17. Zoltoy	474
25. Reef	303	18. Southwest Bay	1,665
30. Reef	217	19. Southwest Bay	1,750
June 3. English and Southwest Bays	2,391	20. Tolstoy and Lukanan	2,563
3. Reef	538	20. Zoltoy	470
4. English Bay and Tolstoy	556	20. Northeast Point	7,212
6. Northeast Point	4,062	23. Zoltoy and Lukanan	3,977
8. Reef and Zoltoy	638	25. English Bay	2,688
9. English and Southwest Bays	1,897	25. English Bay	580
10. Tolstoy	634	26. Reef and Zoltoy	1,913
11. Reef	540	27. Lukanan	1,321
13. English and Southwest Bays	1,982	27. Northeast Point	8,129
13. Tolstoy	620	30. Tolstoy and Zoltoy	1,212
13. Northeast Point	4,724	July 1. English Bay	2,208
		3. Zoltoy and Lukanan	2,615
		3. Tolstoy	1,537
		4. Zoltoy and Lukanan	536

1874—Continued.

July	4. Northeast Point.....	3, 014	July	28. Zoltoy	165
	6. Tolstoy	1, 364	Aug.	5. Zoltoy	110
	8. English Bay	2, 702		10. Zoltoy	104
	9. Zoltoy	1, 987		17. Zoltoy	121
	9. Lukanan and Tolstoy ..	1, 580		24. Zoltoy	116
	10. Zoltoy	432	Sept.	7. Zoltoy	91
	10. Northeast Point.....	3, 367		16. Zoltoy	108
	13. Tolstoy and Lukanan ..	1, 661		25. Zoltoy	117
	14. English Bay	2, 169	Oct.	1. Zoltoy	44
	15. Zoltoy	468		19. Reef	118
	16. Lukanan	1, 091		29. Reef	196
	16. Zoltoy	668	Dec.	17. Reef	1, 474
	17. Lukanan	527			
	17. Northeast Point.....	4, 004			
	23. Zoltoy	127			92, 221

1875.

Jan.	3. Northeast Point.....	25	June	26. Southwest Bay.....	4, 036
Feb.	10. Northeast Point.....	9		26. Northeast Point.....	7, 323
	16. Northeast Point.....	6		28. Reef and Zoltoy.....	1, 526
Mar.	6. Northeast Point.....	16		30. English Bay	3, 925
May	6. Southwest Bay.....	178	July	1. Lukanan and Zoltoy ..	2, 534
	6. Southwest Bay.....	311		3. Northeast Point.....	5, 020
	10. Northeast Point.....	9		6. Zoltoy	1, 248
	14. Northeast Point.....	20		8. English Bay	3, 365
	18. Reef	143		9. Tolstoy	2, 097
	24. Reef	656		10. Ketovy	1, 125
	31. Reef	492		10. Northeast Point.....	5, 935
June	1. Tolstoy	204		13. Zoltoy	1, 565
	2. Southwest Bay.....	1, 198		14. Tolstoy	1, 810
	5. Zoltoy and Tolstoy ..	692		14. Ketovy	746
	7. Zoltoy, Tolstoy, and Reef	710		15. English Bay	2, 700
	8. Southwest and English Bay	1, 560		16. Zoltoy	1, 205
	10. Southwest and English Bay	1, 456		17. Northeast Point.....	7, 439
	12. Reef and Zoltoy.....	631		17. Northeast Point.....	27
	12. Northeast Point.....	4, 052		17. Zoltoy	637
	14. Tolstoy	739	Aug.	28. Zoltoy	159
	15. Half Way Point.....	2, 115		4. Zoltoy	235
	16. Reef and Tolstoy.....	707		14. Ketovy	191
	16. Lukanan	452		22. Zoltoy	159
	18. Southwest and English Bays	3, 300		2. Zoltoy	101
	19. Zoltoy	1, 363		11. Zoltoy	78
	19. Northeast Point.....	5, 252		22. Zoltoy	41
	21. Tolstoy	1, 830		30. Zoltoy	63
	22. Zoltoy	1, 149	Oct.	12. Zoltoy	55
	23. English Bay	3, 007	Nov.	5. Reef	155
	24. Lukanan	262		18. Tolstoy	1, 985
				27. Southwest Bay.....	9
					90, 036

1876.

Jan.	12. Tolstoy and Southwest Bay	709	June	14. Tolstoy	885
May	23. Southwest Bay.....	897		15. Zoltoy and Reef.....	624
	30. Reef	223		16. Southwest Bay.....	2, 611
June	3. Southwest Bay.....	188		17. Northeast Point.....	3, 120
	6. Reef.....	836		19. Zoltoy	2, 942
	6. Reef.....	673		21. Tolstoy Hill	3, 161
	7. Tolstoy	468		22. Zoltoy	480
	8. Southwest Bay.....	566		24. Northeast Point.....	6, 193
	10. Zoltoy	173		24. Southwest Bay.....	4, 503
	10. Northeast Point.....	1, 585		26. Zoltoy	862
	12. Zoltoy	868		28. English Bay	3, 017
	13. Halfway Point.....	811		29. Zoltoy	1, 442
			July	1. Northeast Point.....	7, 000

1876—Continued.

July	1. Tolstoy and Middle Hill	4, 495	Aug	10. Zoltoy	120
	4. Zoltoy and Ketovy	2, 644		17. Ketovy	129
	5. Tolstoy	2, 846		23. Ketovy	207
	7. English Bay	2, 267	Sept.	1. Zoltoy	163
	8. Northeast Point	8, 116		9. Ketovy	50
	8. Lukanan	2, 126		16. Zoltoy	9
	10. Zoltoy	2, 039	Nov.	24. Southwest Bay	376
	10. Tolstoy	1, 974		25. Southwest Bay	127
	21. Zoltoy	53	Dec.	14. Tolstoy	575
	29. Zoltoy	1, 040			
Aug.	2. Tolstoy	2, 139			77, 900
	2. Lukanan	1, 538			

1877.

May	22. Reef	332	June	30. Northeast Point	6, 449
June	4. Reef	546	July	2. Zoltoy	1, 849
	5. Southwest and English Bay	796		3. Tolstoy and Lukanan	1, 534
	8. Southwest and English Bay	1, 696		5. English Bay and Middle Hill	2, 522
	12. Reef and Zoltoy	446		6. Ketovy and Lukanan	2, 275
	13. Halfway Point	1, 092		7. Northeast Point	5, 660
	14. Southwest and English Bay	1, 647		7. Zoltoy	1, 113
	15. Tolstoy and Lukanan	1, 506		9. Zoltoy	495
	16. Zoltoy	1, 092		10. Tolstoy and Middle Hill	2, 086
	18. Zoltoy	1, 011		10. Northeast Point	2, 172
	19. Tolstoy and Middle Hill	1, 458		14. Zoltoy	1, 066
	20. Southwest Bay	1, 631		27. Zoltoy	75
	21. Zoltoy and Lukanan	1, 172	Aug.	6. Zoltoy	142
	22. Halfway Point	1, 224		11. Zoltoy	168
	23. Tolstoy and Middle Hill	1, 050		20. Zoltoy	176
	23. Northeast Point	5, 965		30. Zoltoy	108
	25. Zoltoy	1, 250	Sept.	12. Zoltoy	52
	26. Halfway Point	430	Nov.	18. Zoltoy	201
	27. Tolstoy and Middle Hill	2, 020		27. Southwest Bay	1, 241
	28. Zoltoy and Lukanan	1, 396		29. Southwest Bay	339
	29. English Bay	2, 166	Dec.	22. Northeast Point	20
	30. Tolstoy and Middle Hill	1, 915			61, 584

1878.

May	20. Seal Lion Rock	205	June	29. Northeast Point	6, 375
	30. Southwest Bay and Tolstoy	703	July	1. Halfway Point	2, 237
June	8. Reef	857		2. Zoltoy and Ketovy	3, 903
	11. Southwest Bay and Tolstoy	2, 407		3. Lukanan	791
	12. Reef	556		4. Zoltoy and Ketovy	2, 010
	13. Southwest and English Bays	1, 098		5. Tolstoy	2, 622
	14. Tolstoy	887		6. Zoltoy and Ketovy	1, 036
	15. Ketovy and Zoltoy	1, 282		6. Northeast Point	7, 231
	17. Tolstoy and Middle Hill	1, 501		8. Halfway Point	484
	18. Southwest and English Bays	2, 271		8. Lukanan and Ketovy	885
	19. Ketovy, Lukanan and Zoltoy	992		9. Zoltoy	2, 288
	20. Tolstoy and Middle Hill	1, 731		10. Zoltoy	916
	21. Southwest Bay	1, 457		10. Northeast Point	3, 322
	22. Zoltoy and Lukanan	1, 309		12. Tolstoy and Middle Hill	3, 600
	22. Northeast Point	5, 900		13. Zoltoy	2, 101
	24. Halfway Point	1, 473		16. Tolstoy	1, 986
	25. Tolstoy and Middle Hill	1, 552		17. Zoltoy	2, 337
	26. Lukanan and Zoltoy	1, 895		18. Zoltoy	1, 549
	27. Southwest and English Bays	2, 666		18. Lukanan	272
	28. Ketovy and Zoltoy	1, 661		30. Zoltoy	304
	29. Tolstoy and Lukanan	1, 130	Aug.	10. Zoltoy	294
			Nov.	26. Reef and Tolstoy	1, 128
				28. Reef and Tolstoy	815
			Dec.	14. Northeast Point	183
					82, 152

1879.

May 20. Southwest and English Bays.....	278	June 28. Lukanan, Ketovy, and Zoltoy	1,206
26. Reef	525	28. Northeast Point.....	7,042
June 2. Reef	162	30. Tolstoy and Middle Hill	2,617
7. English and Southwest Bays.....	1,627	July 1. English Bay	2,148
9. Reef	434	2. Zoltoy and Lukanan ..	1,885
10. Halfway Point.....	1,188	3. Tolstoy and Ketovy ...	1,932
11. Southwest and English Bays.....	1,462	4. English Bay	2,106
12. Tolstoy	498	5. Lukanan and Ketovy..	1,168
14. Southwest Bay and Middle Hill	997	5. Northeast Point.....	9,083
13. Reef, Zoltoy, and Ketovy	730	7. Tolstoy and Middle Hill ..	1,528
16. Halfway Point	522	8. Lukanan, Ketovy, and Zoltoy	1,920
17. Southwest Bay and Middle Hill	1,331	9. Lukanan, Ketovy, and Zoltoy	983
18. Reef, Zoltoy, and Ketovy	914	10. Tolstoy	948
19. Southwest and English Bays.....	1,110	10. Northeast Point.....	5,599
20. Tolstoy and Middle Hill ..	1,176	14. Zoltoy	2,652
21. Lukanan, Ketovy, and Reef	1,053	15. Zoltoy and Ketovy ...	1,283
21. Northeast Point.....	7,388	16. Tolstoy, Middle Hill, and Lukanan	2,282
23. Tolstoy and Middle Hill ..	2,300	25. Zoltoy	434
24. Southwest and English Bays.....	1,822	29. Zoltoy	429
25. Reef, Zoltoy, and Ketovy	1,995	Aug. 2. Zoltoy	237
26. Tolstoy, Middle Hill, and Zoltoy	1,542	11. Zoltoy	171
27. Halfway Point.....	1,940	28. Zoltoy	3
		Nov. 13. Reef	70
		27. Reef	162
		Dec. 6. Reef	845
		15. Reef	1,144
		26. Northeast Point.....	62
		Aug. 20. Zoltoy	121
			81,604

1880.

May 14. Southwest Bay.....	206	June 30. Tolstoy and Middle Hill ..	2,297
22. Reef	225	July 1. Tolstoy and Middle Hill ..	1,621
29. Northeast Point.....	19	2. English Bay	2,373
June 1. Reef	216	3. Northeast Point.....	7,167
8. Southwest Bay	1,496	3. Zoltoy, Reef, and Ketovy ..	1,386
9. Reef	926	5. Halfway Point.....	789
11. Tolstoy and English Bay.....	884	5. Lukanan and Ketovy..	651
12. Southwest and English Bays	762	6. Zoltoy	1,577
14. Halfway Point	1,204	7. Tolstoy and Lukanan..	1,654
15. Reef and Zoltoy	763	8. Reef, Ketovy, and Zoltoy ..	2,218
16. Southwest and English Bays	990	9. Middle Hill and Lukanan ..	1,426
17. Reef, Zoltoy, and Ketovy	703	10. Northeast Point.....	7,073
18. Tolstoy and English Bay.....	1,618	10. Zoltoy, Ketovy, and Lukanan	1,221
19. Northeast Point.....	5,277	12. Zoltoy and Ketovy	817
19. English Bay and Middle Hill	801	13. Tolstoy and Middle Hill ..	1,763
21. Halfway Point	1,459	14. Reef, Zoltoy, and Lukanan ..	2,638
22. Reef, Zoltoy, and Ketovy	1,035	15. Middle Hill and Ketovy ..	1,834
23. Tolstoy and Middle Hill ..	1,701	16. English Bay	2,461
24. Reef, Zoltoy, and Ketovy	1,437	17. Zoltoy	531
25. English Bay and Middle Hill.....	2,580	30. Zoltoy	228
26. Reef, Zoltoy, and Ketovy	1,062	31. Zoltoy	218
26. Northeast Point.....	6,201	Aug. 19. Zoltoy	351
28. Halfway Point	1,514	Oct. 25. English Bay	60
29. Zoltoy and Lukanan ..	1,743	Nov. 29. English Bay	480
		Dec. 8. Reef	1,126
		9. Southwest Bay	13
		31. Northeast Point.....	125
			78,923

1881.

Jan.	1. Tolstoy and Reef	919	July	5. Zoltoy and Ketovy	1, 129
	3. Tolstoy	122		6. English and Southwest	
May	29. Reef	171		Bays	3, 447
June	6. Reef and Zoltoy	421		7. Tolstoy and Zoltoy	1, 890
	7. English and Southwest			8. Halfway Point	1, 118
	Bays	1, 225		8. Northeast Point	6, 371
	9. Reef	149		9. English Bay and Middle	
	10. Rocky Point	474		Hill	2, 630
	14. Reef and Zoltoy	195		12. Tolstoy, Zoltoy, and	
	15. English and Southwest			Lukanan	3, 073
	Bays	2, 386		13. English Bay and Middle	
	16. Lukanan, Reef, and Zol-			Hill	1, 778
	toy	723		14. English Bay	1, 471
	17. Halfway Point	539		15. Tolstoy, Lukanan, and	
	18. Tolstoy and English Bay			Zoltoy	3, 558
	20. Zoltoy and Lukanan ..	1, 614		16. Lukanan, Ketovy, and	
	21. Tolstoy and Middle Hill	1, 491		Zoltoy	711
	22. Tolstoy and English Bay	2, 058		16. Northeast Point	16
	23. Zoltoy	1, 163		18. Tolstoy, Lukanan and	
	24. Halfway Point	638		Zoltoy	2, 449
	24. English Bay and Middle			19. English Bay	2, 300
	Hill	2, 438		20. Tolstoy, Lukanan and	
	25. Middle Hill, Lukanan,			Zoltoy	2, 530
	and Zoltoy	1, 275	Aug.	1. Zoltoy	313
	25. Northeast Point	4, 196		5. Zoltoy	224
	27. English Bay and Tol-			16. Zoltoy	247
	stoy	1, 252	Nov.	5. Middle Hill	180
	28. Southwest and English			16. Middle Hill	669
	Bays	1, 919		17. Tolstoy	490
	29. Zoltoy and Lukanan ..	1, 604		21. Middle Hill	461
	30. Zoltoy and Lukanan ..	3, 000	Dec.	7. Southwest Bay	1, 018
July	1. Tolstoy, Middle Hill,			9. Reef	1, 385
	and Ketovy	1, 131			82, 386
	2. Halfway Point	943			
	3. Northeast Point	7, 369			
	4. English Bay and Middle				
	Hill	2, 285			

1882.

Jan.	12. Sea Lion Rock	77	June	24. Northeast Point	5, 987
Feb.	8. Sea Lion Rock	103		26. Southwest Bay	1, 861
	10. Sea Lion Rock	8		27. English Bay and Mid-	
May	22. Tolstoy	131		dle Hill	2, 654
	22. Northeast Point	51		28. Reef and Zoltoy	2, 293
	30. Reef	146		29. Middle Hill and Tol-	
June	2. Southwest Bay	400		stoy	1, 791
	7. Southwest Bay	847	July	30. Halfway Point	1, 497
	8. Reef and Zoltoy	428		1. Zoltoy	1, 021
	10. Reef and Zoltoy	488		1. Northeast Point	5, 830
	12. Southwest Bay	1, 196		3. Southwest Bay	2, 520
	13. Halfway Point	217		4. English Bay and Mid-	
	14. Southwest Bay	803		dle Hill	2, 037
	14. Northeast Point	1, 393		5. Zoltoy and Ketovy	1, 778
	16. Zoltoy and Halfway			6. Tolstoy, Middle Hill,	
	Point	1, 458		and Zoltoy	1, 241
	17. Southwest Bay and Zol-			7. English Bay and Mid-	
	toy	1, 070		dle Hill	1, 373
	19. Lukanan, Ketovy, and			8. Halfway Point	1, 977
	Reef	986		8. Northeast Point	5, 128
	20. Southwest Bay	2, 010		10. Zoltoy, Ketovy, and	
	21. Tolstoy and Middle			Lukanan	2, 055
	Hill	652		12. Zoltoy, Ketovy, and	
	22. Reef, Zoltoy, and Ke-			Lukanan	1, 928
	tovy	1, 457		13. Southwest Bay	2, 700
	23. Halfway Point	1, 230		14. English Bay and Mid-	
	24. Tolstoy and Middle			dle Hill	2, 503
	Hill	1, 083		15. Northeast Point	4, 037

1882—Continued.

July 15. Zoltoy and Lukanan ..	1,046	Aug. 4. Zoltoy	251
17. English Bay and Middle Hill	1,719	14. Zoltoy	103
17. Northeast Point	874	Nov. 17. Tolstoy and Middle Hill	161
18. Zoltoy	923	30. Tolstoy	803
19. Zoltoy, Ketovy, and Lukanan	1,276	Dec. 6. Reef	865
20. Southwest Bay	724	12. Reef	398
25. Zoltoy	204		
			77,798

1883.

Jan. 1. Northeast Point	19	July 4. Middle Hill and Tolstoy	1,494
May 20. Southwest Bay	227	5. Reef, Zoltoy and Lukanan	2,346
June 4. Tolstoy and Southwest Bay	590	6. Middle Hill and Zoltoy	1,755
6. Halfway Point	352	7. Zoltoy and Lukanan ..	935
9. Reef and Zoltoy	175	9. Northeast Point	5,066
11. Southwest Bay	209	9. Middle Hill	1,161
11. Tolstoy and Middle Hill	196	10. Middle Hill, Tolstoy, and Zoltoy	1,923
12. Reef and Zoltoy	351	12. Lukanan and Halfway Point	1,657
13. Halfway Point	252	13. Southwest Bay	2,440
14. Southwest Bay	490	14. Middle Hill and Tolstoy	2,126
15. Tolstoy and Lukanan ..	434	16. Middle Hill and English Bay	2,059
16. Reef and Zoltoy	341	17. Halfway Point and Zoltoy	1,115
18. Southwest Bay	417	18. Southwest Bay	1,873
19. Tolstoy, Middle Hill, and English Bay	734	19. Middle Hill, Lukanan and Zoltoy	1,782
20. Halfway Point and Lukanan	904	19. Middle Hill, Lukanan and Zoltoy	101
21. Reef and Zoltoy	955	Aug. 1. Zoltoy	190
22. Middle Hill and English Bay	1,401	10. Zoltoy	154
23. Northeast Point	3,279	20. Zoltoy	197
23. Tolstoy and Lukanan ..	1,078	Sept. 1. Zoltoy	112
25. English Bay and Middle Hill	1,428	12. Zoltoy	53
26. Zoltoy and Lukanan ..	838	Nov. 5. Reef	174
27. Southwest and English Bays	1,638	26. Reef	155
28. Tolstoy, Lukanan, and Zoltoy	1,607	27. Tolstoy	84
29. Middle Hill and Zoltoy ..	1,515	Dec. 12. Reef	402
30. Lukanan and Zoltoy ..	1,191	19. Reef	421
30. Northeast Point	5,012		
July 2. Halfway Point	1,699		59,258
3. Southwest Bay	2,151		

1884.

Jan 2. Reef	161	June 18. Halfway Point and Ketovy	912
May 21. Halfway Point and Reef	187	19. English Bay and Tolstoy	486
27. Southwest Bay and Reef	427	20. Southwest Bay	1,786
June 3. Reef	317	21. Zoltoy and Reef	1,115
5. Southwest Bay and Tolstoy	767	21. Northeast Point	4,074
9. Halfway Point and Reef	1,238	23. Halfway Point and Zoltoy	2,163
10. English Bay	426	24. Lukanan Reef and Zoltoy	1,724
11. Southwest Bay and Halfway Point	1,356	25. Southwest Bay	1,194
12. Middle Hill and Zoltoy ..	864	26. English Bay and Middle Hill	2,528
13. Reef and Zoltoy	771	27. Zoltoy, Reef, and Ketovy	1,827
14. Tolstoy and Halfway Point	837	28. Tolstoy, Middle Hill, and Lukanan	1,500
16. Southwest Bay	1,421	28. Northeast Point	5,134
17. English Bay and Reef ..	1,266		

1884—Continued.

June 30. Halfway Point and Zoltoy	1,662	July 15. Southwest Bay	2,049
July 1. Tolstoy, Zoltoy, and Lukanan	1,824	16. English Bay and Middle Hill	1,523
2. English Bay and Middle Hill	1,884	17. Lukanan and Zoltoy ..	1,777
3. Southwest Bay and Zoltoy	1,336	18. English Bay and Middle Hill	1,866
4. Middle Hill, Tolstoy, and Lukanan	1,512	18. Northeast Point	5,089
5. Reef, Zoltoy, and Ketovy	1,249	19. Middle Hill, Lukanan, and Zoltoy	2,527
5. Northeast Point	5,799	21. English Bay, Zoltoy, and Ketovy	1,907
7. Halfway Point	1,934	Aug. 1. Zoltoy	229
8. Reef, Zoltoy, and Ketovy	2,067	5. Zoltoy	89
9. Southwest Bay	1,966	12. Zoltoy	65
9. Northeast Point	3,003	19. Zoltoy	84
10. English Bay and Middle Hill	1,915	26. Zoltoy	57
12. Middle Hill, Lukanan, and Zoltoy	3,072	Oct. 30. Zoltoy	53
14. Halfway Point and Zoltoy	2,515	Nov. 10. Tolstoy	115
		24. Tolstoy	108
		Dec. 5. Zoltoy	487
		24. Reef	489
			84,733

1885.

May 19. Sea Lion Rock	127	July 8. Lukanan and Ketovy ..	2,548
21. Sea Lion Rock	41	9. Middle Hill	1,292
27. Zoltoy	136	10. Halfway Point	2,302
June 3. Reef	48	10. Northeast Point	3,916
6. Reef	73	13. Southwest Bay	2,132
11. Reef and Zoltoy	125	14. English Bay and Middle Hill	2,692
13. Middle Hill and Tolstoy ..	587	15. Zoltoy	2,138
15. Halfway Point	741	16. Halfway Point and Lukanan	2,137
16. Reef and Lukanan	971	17. Zoltoy	2,201
17. Southwest Bay	1,700	18. Reef and Middle Hill ..	1,552
18. English Bay and Middle Hill	617	18. Northeast Point	4,160
19. Halfway Point and Lukanan	1,307	20. Southwest Bay	1,590
20. Reef and Zoltoy	986	21. Middle Hill and English Bay	2,720
22. Zoltoy and Lukanan ..	789	22. Zoltoy, Reef, and Lukanan	2,739
23. Halfway Point and Zoltoy	1,142	23. Zoltoy and Middle Hill ..	1,603
24. Southwest and English bays	1,733	23. Northeast Point	2,620
25. Lukanan, Reef, and Zoltoy	1,679	24. Halfway Point and Middle Hill	2,495
26. Halfway Point	1,372	25. Middle Hill, Lukanan, and Zoltoy	2,212
27. Lukanan, Zoltoy, and Reef	1,328	27. Zoltoy and Ketovy	983
27. Northeast Point	4,970	Aug. 3. Zoltoy	147
29. Southwest Bay	1,602	12. Zoltoy	178
30. English Bay and Middle Hill	2,681	21. Zoltoy	176
July 1. Zoltoy and Lukanan ..	1,782	Sept. 5. Zoltoy	44
2. Middle Hill and English Bay	1,456	Oct. 26. Zoltoy	53
3. Halfway Point and Zoltoy	2,132	Nov. 9. English Bay and Middle Hill	330
4. Lukanan and Zoltoy ..	976	21. Reef	144
4. Northeast Point	4,152	Dec. 4. Reef	383
6. Southwest Bay	1,271	17. Reef	701
7. English Bay and Middle Hill	2,663		85,395

1886.

Jan. 21. Sea Lion Rock	83	July 7. Reef, Zoltoy, and Lu-	
29. Southwest Bay	49	kunan	1,967
May 17. Southwest Bay and		8. Southwest Bay	1,466
Reef	300	9. English Bay and Mid-	
28. Reef	153	dle Hill	1,562
June 4. Reef	561	10. Reef, Zoltoy, and Lu-	
8. Southwest Bay and		kunan	1,132
Tolstoy	1,323	10. Northeast Point	4,822
9. Halfway Point	299	12. Halfway Point	1,044
10. Reef and Zoltoy	633	13. Southwest Bay and	
11. Tolstoy	214	West Point	1,442
14. Lukanan and Reef	427	14. English Bay and Mid-	
15. Southwest Bay	1,166	dle Hill	1,074
16. English Bay and Tol-		15. Reef, Zoltoy, and Lu-	
stoy	850	kunan	1,956
17. Halfway Point	833	16. Halfway Point	937
18. Reef and Zoltoy	651	17. Southwest Bay and	
19. Tolstoy and Middle		West Point	2,055
Hill	1,064	19. Northeast Point	4,422
19. Northeast Point	4,655	19. Reef and Zoltoy	2,312
21. Southwest Bay	1,890	20. English Bay and Mid-	
22. English Bay and Tol-		dle Hill	3,140
stoy	1,906	21. Halfway Point	1,475
23. Halfway Point	1,770	22. Southwest Bay and	
24. Zoltoy	1,555	West Point	2,015
25. Reef, English Bay, and		23. Reef, Zoltoy, and Lu-	
Tolstoy	2,158	kunan	3,147
26. Northeast Point	4,295	24. English Bay and Mid-	
28. Southwest Bay	1,070	dle Hill	1,624
29. English Bay and Zol-		24. Northeast Point	4,186
toy	1,503	26. Southwest Bay and	
30. Halfway Point and		Halfway Point	1,988
Lukanan	490	Aug. 3. Zoltoy	287
July 1. English Bay and Tol-		19. Zoltoy	282
stoy	1,318	Sept. 6. Zoltoy	100
2. Southwest Bay	856	Oct. 24. Reef	143
3. Reef and Zoltoy	1,259	Nov. 23. Reef and Tolstoy	665
3. Northeast Point	4,544	Dec. 1. Reef	378
5. English Bay and Tol-		21. Tolstoy	191
stoy	1,161		
6. Halfway Point	942		84,890

1887.

May 25. Reef and Southwest		June 30. Halfway Point	1,604
Bay	275	July 1. English Bay	1,162
June 6. Tolstoy	419	2. Northeast Point	6,068
9. Reef	314	2. Reef and Zoltoy	1,616
11. Tolstoy	501	4. Tolstoy and Middle Hill	1,703
13. Southwest Bay	407	5. Reef, Zoltoy, and Lu-	
15. Reef and Zoltoy	526	kunan	2,016
16. Halfway Point	750	6. Halfway Point	990
17. Tolstoy and English		7. English Bay and Tol-	
Bay	765	stoy	1,618
20. Southwest Bay	523	8. Reef and Zoltoy	1,125
20. Reef and Zoltoy	1,641	9. Northeast Point	5,717
22. English Bay and Luka-		9. Southwest Bay	2,061
nan	1,004	12. English Bay and Lu-	
23. Halfway Point	1,314	kunan	2,593
24. Reef and Zoltoy	1,165	13. Reef, Zoltoy, and Ke-	
25. Northeast Point	4,891	tovy	3,028
25. English Bay and Tol-		14. Halfway Point	1,201
stoy	1,961	15. Tolstoy and Ketovy ..	1,298
27. Southwest Bay and		16. Reef and Zoltoy	986
West Point	1,180	16. Northeast Point	6,324
28. Zoltoy and Lukanan ..	2,964	17. West Point	617
29. Tolstoy and Middle Hill	1,895	18. Southwest Bay	2,105

1887—Continued.

July 19. English Bay and Tolstoy	2, 037	Aug. 16. Reef and Lukanan	207
20. Zoltoy and Lukanan	3, 294	24. English Bay	519
21. Halfway Point and Lagoon	1, 397	Sept. 5. Middle Hill	403
22. English Bay and Tolstoy	1, 876	15. Zoltoy	106
22. Northeast Point	5, 565	Nov. 6. Zoltoy	65
23. Zoltoy and Southwest Bay	2, 226	7. Middle Hill	590
24. Middle Hill	232	25. Reef	78
Aug. 1. Zoltoy	164	26. Tolstoy and Middle Hill	185
8. Zoltoy	113	Dec. 9. Tolstoy and Middle Hill	445
		15. Sea Lion Rock and Southwest Bay	167
			85, 996

1888.

Jan. 25. Northeast Point	532	July 10. Reef and Zoltoy	1, 082
May 19. Tolstoy and Sea Lion Rock	122	12. English Bay and Lukanan	1, 554
24. Reef	113	13. Southwest Bay	1, 337
28. Reef	82	14. Northeast Point	5, 088
31. Zoltoy	290	14. Halfway Point	773
June 2. Reef	121	15. West Point	480
7. Reef and Zoltoy	175	16. Reef and Zoltoy	2, 004
9. Tolstoy	342	17. English Bay	2, 054
11. Southwest and English Bays	927	18. Southwest Bay	2, 216
11. Northeast Point	121	19. Halfway Point and Lukanan	1, 410
12. English Bay	584	20. Zoltoy and Reef	2, 018
15. Halfway Point	428	21. Northeast Point	5, 463
16. Reef and Zoltoy	788	21. English Bay and Lagoons	1, 347
18. Southwest Bay	764	23. Reef, Zoltoy, and Lukanan	1, 269
19. English Bay and Tolstoy	490	24. Halfway Point	347
21. Reef and Zoltoy	1, 398	25. English Bay	1, 619
22. Halfway Point	799	26. Northeast Point	3, 565
23. Northeast Point	5, 562	26. Reef, Zoltoy, and Lukanan	1, 353
23. English Bay and Middle Hill	700	27. Southwest Bay and Zoltoy	950
25. Southwest Bay	1, 440	Aug. 2. Zoltoy	177
26. English Bay and Middle Hill	1, 158	8. Zoltoy	140
27. Reef, Zoltoy, and Lukanan	2, 005	16. Zoltoy	159
28. Halfway Point	911	23. Middle Hill and Lukanan	362
29. Southwest Bay	1, 098	25. Zoltoy	321
30. Northeast Point	5, 998	Sept. 6. Zoltoy	44
30. English Bay and Middle Hill	1, 625	15. Zoltoy	14
July 2. Reef, Zoltoy, and Lukanan	2, 071	Oct. 27. Middle Hill	32
3. Halfway Point	1, 188	Nov. 3. Middle Hill and Zoltoy	126
4. Southwest Bay	822	15. Zoltoy	277
5. English Bay and Lukanan	1, 912	26. Zoltoy	111
6. Reef and Zoltoy	1, 491	30. Reef	127
7. Halfway Point	490	Dec. 17. Tolstoy	190
7. Northeast Point	7, 054	26. Sea Lion Rock	78
9. English Bay and Lukanan	2, 398		84, 116

1889.

May 22. Sea Lion Rock	124	June 10. Reef	120
25. Reef	41	12. Tolstoy	947
28. Reef	234	14. Reef and Zoltoy	764
June 5. Reef	201	15. Southwest Bay	340

1889—Continued.

June 17. Halfway Point	1, 229	July 15. English Bay and Middle Hill	3, 083
18. English Bay and Middle Hill	1, 160	16. Zoltoy, Reef and Lukanan	1, 911
19. Zoltoy, Reef, and Lukanan	1, 561	17. Halfway Point	1, 931
20. Southwest Bay	253	18. English Bay, Middle Hill, and Lagoon	2, 045
21. Northeast Point	4, 156	19. Southwest Bay	2, 016
22. English Bay and Middle Hill	1, 355	20. Zoltoy and Reef	1, 913
24. Reef and Zoltoy	2, 578	20. Northeast Point	6, 361
25. Halfway Point and Lukanan	979	22. English Bay and Middle Hill	1, 943
26. English Bay and Middle Hill	1, 314	23. Reef, Zoltoy, and Ketovy	1, 122
27. Southwest Bay	311	24. Halfway Point	1, 334
28. Reef, Zoltoy, and Ketovy	1, 349	25. English Bay and Middle Hill	1, 752
29. Northeast Point	4, 230	26. Southwest Bay	679
29. English Bay and Middle Hill	1, 038	27. Reef and Lukanan	1, 105
July 1. Reef, Zoltoy, and Lukanan	1, 023	27. Northeast Point	3, 140
2. Halfway Point	834	29. English Bay and Middle Hill	1, 640
3. English Bay and Middle Hill	1, 841	30. Halfway Point and Southwest Bay	1, 588
4. Reef, Zoltoy, and Lukanan	1, 716	31. Northeast Point	2, 162
5. Southwest Bay	1, 255	31. Zoltoy	* 156
6. English Bay and Middle Hill	1, 302	Aug. 6. Lukanan	* 163
6. Northeast Point	5, 627	14. Zoltoy	* 181
8. Reef, Zoltoy, and Lukanan	813	22. Zoltoy	* 139
9. English Bay and Middle Hill	1, 314	31. Zoltoy	* 87
10. Halfway Point	932	Oct. 26. Lukanan	* 44
12. Reef and Zoltoy	2, 004	Nov. 4. Zoltoy	* 80
13. Southwest Bay	1, 006	19. Tolstoy	* 223
13. Northeast Point	3, 148	21. Reef	* 347
		27. Reef	* 189
		30. Reef	* 246
		Dec. 11. Zapadnie	* 240
			84, 937

1890.

Jan. 27. Sea Lion Rock *170 | May 21. Sea Lion Rock *131

Recapitulation of seals killed for their skins on St. Paul Island, Alaska, from 1871 to 1889, inclusive.

1871	77, 620	1876	77, 900	1881	82, 386	1886	84, 890
1872	75, 352	1877	61, 584	1882	77, 798	1887	85, 996
1873	75, 437	1878	82, 152	1883	59, 258	1888	84, 116
1874	92, 221	1879	81, 004	1884	84, 733	1889	84, 937
1875	90, 036	1880	78, 923	1885	85, 395		

I, Max Heilbronner, Secretary of the Alaska Commercial Company of San Francisco, solemnly swear that the foregoing "seal-skin record of St. Paul Island, Alaska, 1871 to 1889," is formulated and compiled from the books of said company kept on said island, now in my custody, and is correct and true, according to my best knowledge and belief.

MAX HEILBRONNER,
Secretary Alaska Commercial Company.

Subscribed and sworn to before me this 12th day of May, A. D. 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

* Killed for food. The seals killed for food from July 31, 1889, to May 21, 1890, inclusive, do not appear in the records of the Alaska Commercial Company, but are compiled from the official report of the Treasury agent in charge.—M. H.

Deposition of Aggie Kushin, assistant priest on St. Paul Island, and employé of lessees.

MANAGEMENT, HABITS

ALASKA, U. S. A.,

St. Paul Island, Pribilof Group, ss:

Aggie Kushin, being duly sworn, deposes and says: I was born at

Experience. Simshoe, Kurile Islands, and am 37 years of age. I

came to St. Paul Island in 1867 and have resided here ever since. I can read and write in the Russian and Aleut languages, and am able to interpret the one into the other; and I understand the English language fairly well. At present and for several years past I am assistant priest in the Greek Catholic Church. My occupation on the island is that of native sealer, and I have been such since 1870.

I have a thorough knowledge of the taking of fur seals for skins in all its details as it has been done on St. Paul Island since 1870. From 1870 to about 1884

Full rookeries from 1870 to 1884. the seal rookeries were always filled out to their limits, and sometimes beyond them.

About 1885 a decrease was observed, and that decrease has become more marked every year from 1885 to the present time.

Decrease since 1885. I never saw many sealing schooners before 1884, but they have been coming more and more every year since, and I notice that as the schooners multiply in the sea the seals decrease on the rookeries. I do not mean to say that the seals were injured because a few were killed on the rookeries, when men from schooners landed on the islands in the night or when the fog was very thick, for the numbers killed in that way never amounted to much, as it

Raids. is not often the raiders can land on a rookery and escape with their plunder. When, in 1886, we all saw the decrease of seals upon the hauling grounds and rookeries, we asked each other what was the cause of it, but when we learned that white men were shooting seals in the water with guns we knew what was the matter; we knew that if they killed seals in the water that they must be nearly all females that were going out to feed, for the males stay on the islands until they get ready to go away in the fall or winter. It was among

Cows not killed on islands. the cows we first noticed the decrease, and as we never kill the cows on the islands, we knew they must be killing them in the water. We noticed idle vigorous bulls on the breeding rookeries, because of the scarcity of cows, and I have noticed that the cows have decreased steadily every year since 1886, but more particularly so in 1888, 1889, 1890, and 1891.

There was a great number of dead pups upon the rookeries last year, whose mothers, I believe, were killed at sea by sealing schooners and I do not expect to see many cows this year. I never saw a dead grown seal on the island during my twenty-five years' residence here, except odd ones that had been killed in fighting for places on the rookeries.

I never heard any of the old men who have lived here for fifty years before my time speak of such a thing as sickness or death among the seals. We eat the flesh of the seal and it constitutes the meat supply of the natives, and

No sickness or disease among seals. seals from two to five years old have been killed by them for food every week during their stay on the land ever since the islands were peopled, and no one has yet found a diseased seal either young or old.

I have been told that there are persons who claim we are not careful in driving seals and that we kill them regardless of sex.

These statements are not true. I have taken my turn at driving seals from the hauling to the killing grounds every year since 1870 and I know the driving is very carefully done. When I first came here seals used to be driven from Half way Point to the village, a distance of about six miles; and from Zapadnié to the village a distance of nearly five miles. Wet, or very damp, cool weather was chosen for such drives, and we started the drive at about six o'clock at night and driving all night reached the village at from six to eight o'clock next morning.

Driving.

Half a mile in one hour was about the rate of speed on such drives in favorable weather and I do not know of any drives of over two miles where we ever went at a greater speed.

All long drives were stopped in 1879 when the Alaska Commercial Company made a killing ground and built a salt house within two miles of Halfway Point; and made a killing ground within a mile of Zapadnié. Since these changes were made no seals have been driven on St. Paul Island over two miles to a killing ground.

Improved methods.

The seals are never driven at a greater speed than one mile in three hours; and the men who do the driving have to relieve each other on the road because they travel so slowly they get very cold.

In a very large drive a small seal may be smothered, but that does not injure the skin, which is taken and salted and counted

Seals killed in driving.

to the lessees; and the greatest number I ever saw die on the drive was twenty out of a drive of about nine thousand seals, and the twenty skins were good and were accepted as "first-class."

The bull seal arrives at the island early in May, and takes his place on the breeding rookery, and he stays there until August or September without food.

Arrival of bulls.

About the middle of May the young males begin to haul out but are driven off by the bulls who would tear them to pieces if they went on the breeding rookeries. Consequently the bachelors haul out by themselves and are easily surrounded and driven into the killing ground without disturbing the breeding rookery.

Bachelors.

The cows begin to haul out in June and take their places on the breeding rookeries beside the bulls, where the young pups are born, in from one to three days after the arrival of the cows.

Cows.

When the cow goes into the sea for food her stay there becomes longer and longer as the season advances, until at times she will be away for three or four days at a time.

Females feeding.

The pups when first born can not swim, and will drown if they are put into water.

Pups can not swim.

I have seen many pups drowned when washed off the edge of the rookery by the surf. They do not go into the water until they are six or eight weeks old and then they will keep in shallow water and close to the shore for several days more.

Learning to swim.

They seem to like to stay on land until late in the season. Every native knows a female seal at sight, and, as the law against killing a female is strict and so rigidly enforced, and as the clubbers are the most experienced and most careful men on the island, it is very seldom that any female seal is clubbed. Our people have great respect for law and are always ready to obey any rules laid down by the proper authority, and they

Females are seldom clubbed.

have been raised in the firm belief that it is wrong to kill a cow seal. No one knows better than the natives that our prosperity is in the protection of the seals. They are our food supply, and our earnings from taking the skins enable us to live comfortably. Should the Company desire us to kill female seals, every native in the village would be interested in having the Government officer know it. The instructions we have always received from the Company was to be careful in driving and to never kill a female seal.

During the month of August the families break up and the seals scatter around, and some of the cows mingle with the young males and are driven along with them when we make a drive for food, and sometimes one or two are killed accidentally. It is so seldom that this occurs, I do not think that there has been more than about ten cows per year killed on St. Paul Island since 1870.

The skins taken from seals killed for food are salted and counted to the lessees on the quota of the following year, so that nothing may be wasted. When we were allowed to kill pups in November for food and clothing, we always picked out the males, because we were not allowed to kill female pups, and now we are not allowed to kill any pups at all.

When the seals leave the island they go to the southward, and when they come back in the spring they come from that direction. The bulls begin to leave the island about the middle of August, and most of them are gone by the middle of September. The cows and bachelors leave in November and the pups follow or go with the cows. When the weather is good a number of seals will cling to the beach or remain in the water around the rookeries until December and sometimes until late in January. I have noticed

more and more dead pups on the rookeries every year since 1888, and in 1891 they were so close together in places I could not step among them without stepping on a dead pup. I saw many of them cut open and examined by the doctor (Dr. Ack-erly) and their stomachs were empty. All of the dead pups were poor and thin and starved.

I believe they all died of starvation, because their mothers had been shot at sea when they went out to feed. I never saw a full fat pup or one who had a mother to feed him dead, except a few that were drowned in the surf. No cow will suckle any pup but her own, and I have often watched a cow driving pups from her until she found her own. She knows her pup by smelling it.

There are not one-fourth as many seals now as there were in 1882, and our people are very much alarmed to know what is to become of them after the seals are killed off. If the seals decrease as fast as they have during the past five or six years there will be none left in a very short time for us to live upon.

AGGEE KUSHEN.

Subscribed and sworn to before me, an officer empowered to administer oaths, under section 1976, Revised Statutes of the United States, on this the 6th day of June, 1892, at St. Paul Island, Alaska.

WM. H. WILLIAMS,
Treasury agent in charge of seal islands.

Deposition of Jacob Kotchooten, native sealer on St. Paul Island.

HABITS—PELAGIC SEALING—MANAGEMENT.

ALASKA, U. S. A.,

St. Paul Island, Pribilof Group, ss:

Jacob Kotchooten, being duly sworn, deposes and says: I am a native of St. Paul Island, Alaska, and I am 40 years of age. I am a native sealer, and have worked among seals on St. Paul Island all my life, and I remember when I was first
Experience.
 rated a man, some twenty-three years ago; it was when Kerriek Buterin was chief, and he used to follow us up when we went to drive seals, and tell us to walk along as slow as we could, so as not to tire the seals or worry them in any way.

When we used to kill 85,000 seals in two months we had to work hard, and we had to go out at night to
Seals not over-driven.
 drive, so that the seals should not be hurried, nor driven in the daytime when it was warm. In those days seals were driven from Halfway Point to the village, when the ground was wet, a distance of about 6 miles, and we used to start the drive at 6 o'clock at night, and get into the village between 6 and 7 o'clock next morning.

In 1879 the Alaska Commercial Company built a salt
Drive shortened.
 house about 2 miles from Halfway Point, and after that the seals were never driven more than 2 miles. Drives used to be brought from Zapadni to the village, a distance of about 5 miles, until, in 1879, the Alaska Commercial Company made a killing ground within a mile of the rookery, and had the skins taken across the bay in boats to the village salt house.

For the past thirteen years no seals have been driven a greater distance than about 2 miles, and most of the drives are not over 1 mile. The drives are always made by our own people, under the direction of the chiefs. None of our people ever
Drives made by natives.
 knew of any sickness among the seals and pups, and
No sickness among the seals.
 their flesh has always been our meat food.

But very few dead pups were ever seen on the rookeries until the sealing schooners began to come in the water around the island, and they have increased more and more since
Dead pups.
 1888. In 1891 there was a great many that were thin and poor, and they would crawl down to the water and make a noise for their mothers until they died, and when some of them were cut open they had no milk in their stomachs.

When the cows first come to the islands they go on the breeding rookeries and remain there through June and July, excepting while they go out to sea to feed, and this is why very few cows are ever found in the drives made
Habits of the females.
 in those two months while we are killing for skins. In August the families are broken up on the rookeries and the cows scatter and mix up with the young males, and when we drive for food there are a few cows in every drive, but as it is unlawful to kill a cow seal on the islands we are careful that none is killed.

Our people are very careful about that, and if one is killed by accident they do not like it, and the chiefs report us to the Government officer. The most of the bulls leave the island in September, and the cows in the last of October, and early
Migration.
 in November, and the pups leave in November; sometimes when the

weather is warm a few seals remain until January at Northeast Point and on "Sea Lion Rock."

In 1890 we killed seals at both places late in January, and we seen seals on Sea Lion Rock in January, 1892. I have noticed that the seals go off south as soon as the beach becomes icy, and when the is.

Doubtful where seals go.

Return to same rookery each year.

land is surrounded by drift-ice the seals disappear entirely. I do not know where the seals go to when they leave the island, but I do think they come back to the same rookery every year.

Ten or twelve years ago the rookeries and sea were full of seals, but now there is not a great many; we used to kill 85,000 in less than two month's time on St. Paul Island, and our people earned plenty of money to buy everything they wanted, and in the winter we killed 2,000 or 3,000 male pups for food and clothing. Now we are not allowed to kill any more pups, and only 7,500 male seals for food, and our people are very much worried to know what is to become of themselves and children.

Great decrease.

JACOB KOTCHOOTEN.

Subscribed and sworn to before me, an officer empowered to administer oaths under section 1976, Revised Statutes of the United States, this 8th day of June, 1892, at St. Paul Island, Alaska.

Wm. H. WILLIAMS,

Treasury agent in charge of seal islands.

Deposition of Nicoli Krukoff, native employé of lessees, on St. Paul Island

PELAGIC SEALING, HABITS, AND MANAGEMENT.

ALASKA, U. S. A.,

St Paul Island, Pribilof Group, ss :

Nicoli Krukoff, being duly sworn, deposes and says: I am 43 years of age and was born at Sitka, Alaska. I can read and speak the Russian, Aleut, and English languages. I came to St. Paul Island in 1869, and have been here ever since, constantly employed among the

Experience.

fur seals, and I have had daily experience in all the branches of the business, from driving the seals to preparing the skins for shipment, and I am at present the second chief on St. Paul Island, to which position I was appointed in 1891. I remember the first time I noticed a decrease of seals on the rookeries, about

Decrease began seven or eight years ago.

seven or eight years ago, and the seals have become fewer every year since. We used to kill 85,000 seals on St. Paul Island in less than sixty days' time until 1890, when they became so few we could not take more than about one-fourth of that number in the same length of time.

Dead pups.

I never saw but a few dead pups on the rookeries until the schooners came into the sea and shot the cows when they went out to feed and then the dead pups began to increase on the rookeries. I have often cut open dead pups and examined their stomachs, and found them empty, and the pups looked as if they had been starved to death. There were more dead pups in 1891 than ever before, and they were all starved to death. When we used to kill pups for food and clothing in November, I often examined them, and always found plenty of milk in their stomachs.



BAND AT ST. PAUL.

I never saw or heard tell of a sick seal and although we have always eaten the flesh of the fur seal we have never found one that was diseased in any way.

No sick or diseased seals.

The seals came to the islands in the spring and they come from the south through the passes of the Aleutian islands. The bulls come first in May, then the oldest of the bachelors, and they keep coming till July, and they haul out by themselves on the hauling grounds; and the bulls and cows go together on the breeding rookeries. If the bachelors went on the breeding rookeries the bulls would kill them.

Arrival of seals.

Bulls.

Bachelors.

The cows begin to haul out in June and they are all on the rookeries about the middle of July, and the pups are born soon after the cows reach the rookeries. As soon as the pups are a few days old the cows go into the sea to feed and they stay out a little longer every time they go until they will be away for a week at a time. The pups are helpless when born, and they can not swim; and they would drown if put into water, and I have seen them drown when swept off by the surf in bad weather. They do not eat or drink anything except the milk they get from the cows. No cow will suckle any pup but her own. I think the bachelors do not eat from the time they arrive till they go away, and I think so because the seals killed in May and early June are fat and have plenty of food in their stomachs, while those killed later than June are poor and their stomachs are empty, and they get poorer and poorer until they go off in November.

Cows.

Cows feeding.

Pups are helpless.

Pups can not swim.

Cow suckles only her own pup.

Bachelors do not leave islands to feed.

The driving is all done by our own people under direction of the chiefs and we never drive faster than about half a mile in one hour. We very seldom drive twice from one rookery in one week and very few cows get into a drive before the middle of August.

Driving.

Later in the season, when we are driving seals for food, a few cows get into the drives, but we are careful that they do not get hurt; we all know it is forbidden to kill a female seal at any time and we do not want to have them killed and none are killed except by accident. I never saw a seal killed by overdriving or by overheating; odd ones do die on the drives by smothering, but their skins are taken by the company and are counted in with the others. We used to kill pups for food in November and then we had to examine the sex and kill none but males. The Government has forbidden us to kill any more pups and we get other meat instead. All our people know the seals are getting scarcer every year and we think it is because of the schooners coming in and shooting the cows in the sea. Sometimes they try to land on the rookeries, but we drive them off with guns and they never get many seals that way. We earn very little wages now, and we expect the Government to keep us in food and clothing. Unless the schooners are stopped the seals will all be gone soon and then I do not know what my people can do for a living; they know nothing of other work and there is nothing else at the seal islands.

Females killed only by accident.

Forbidden to kill pups.

Decrease.

Raid.

Effect of decrease on natives.

NICOLI KRUKOFF.

Subscribed and sworn to before me, an officer empowered to administer oaths under section 1976, Revised Statutes of the United States, this 8th day of June, 1892, at St. Paul Island, Alaska.

WM. H. WILLIAMS,
Treasury Agent in Charge of Seal Islands.

Deposition of H. W. McIntyre, chief mechanic and resident agent of lessees, on St. Paul Island.

MANAGEMENT.

STATE OF CALIFORNIA,
County of Tehama, ss :

H. W. McIntyre, having been duly sworn, deposes and says: I am an American citizen, a native of the State of Vermont; my age is 57 years; I am a resident of Vina, Tehama County, California, and by occupation General Manager of Senator Leland Stanford's Vina ranch and Palo Alto Vineyard. In the year 1871 I entered the service of the Alaska Commercial Company, and was assigned to duty at the Pribilof group of islands in Bering Sea, first in the capacity of chief mechanic and later as resident Agent in charge of the island of St. Paul.

I left San Francisco for Alaska early in April of 1871, and arrived at St. Paul Island about the beginning of May the same year, on which island I resided continuously until the close of the sealing season of the year 1881, leaving there in the month of August, except that I was absent on leave during a portion of the winter season in 1874, 1877, and 1880. During the period of my residence I visited the islands of St. George, Unalaska, and other principal stations of the Alaska Commercial Company in Bering Sea and the North Pacific, and obtained through observation and from information very accurate knowledge of the fur seals and their habits while upon or near the islands which constitute their breeding place.

Under personal instruction from the late Senator John F. Miller, then president of the Alaska Commercial Company, I commenced shortly after my arrival upon the Island a series of observations in order to determine as nearly as practicable the area of ground occupied by the seals, and incidentally their number, approximately, during the season of 1871 for the purpose of noting the changes which might occur from year to year. To this end, in the year 1871, I carefully noted the position of the seals on breeding rookeries and upon the several hauling grounds where old, young, and middle-aged seals were congregated, and by definitely marking the points reached was enabled, after the animals had migrated in the autumn, to carry forward a survey of the Island as a whole, and on the plat or map resulting from said survey was designated accurately the ground occupied by the seals.

The work of survey was carried on as rapidly as possible, and I was enabled from the observations so made to make a chart or map having upon it bearings and distances, the whole of which were verified by Lieut. Washburn Maynard, of the U. S. Navy, slight differences in our measurements and observations only being noted.

Owing to the fact that President Miller took occasion to impress upon me the necessity of exercising the greatest care in complying strictly with

all the requirements of the lease, and that careful attention to the preservation of the seal life should under all circumstances be regarded as of first importance, and to this end the most careful study of the habits of the animals should be made at the outset, and continued from year to year in order to determine what effect the killing of a definite number might have upon the seals as to increase or diminution—I took more than ordinary care in noting the area of ground occupied each year by the different classes of seals, and it was evident that Steady increase from 1871 to 1881. during the years 1871 to 1881 inclusive there was a steady increase in seals of all kinds.

As my observations extended over a period of time sufficient for the growth and full development of individuals I was enabled to determine with a greater degree of accuracy the effect of the operations of the Company generally, as well as to follow specifically to result, various matters of detail, all of which were based upon the experience and methods of the Russian American Company as practically known to Captain Niebaum, General Manager of the business of the Lessees, and to the Chiefs and other permanent residents of the Islands.

Grounds occupied by the seals as “breeding rookeries” or “hauling grounds” are filled with a degree of uniformity each year; hence the area occupied is a very sure criterion in estimating numbers, whether of “bulls,” or females with their young, or young males, or of mixed young (yearlings) of both sexes, and the fact of there being a constant increase as above mentioned was fully established by the constant enlargement, year after year, of the space so filled.

The fur seals of Alaska are bred and born on the Islands of the Pribilof group in Bering Sea, where they find combined the conditions requisite to their existence, of isolation, Pribilof Islands the home of the Alaskan seal. climate, and proximity to food supply.

The seals are polygamous in their habits as to breeding, and each full grown and vigorous male animal endeavors to gather around himself the largest possible number of females, and to appropriate and hold by force the space necessary for them and their young. Accordingly, when the males return to the Islands, beginning in May of each year (in favorable seasons some may be seen in April), the most desirable locations on the breeding grounds are appropriated by the strongest and most vigorous males, while the weaker or half grown, or young, are forced to take places more remote from well defined centers of population.

In June the females driven by the near approach of maternity arrive, and on landing are forced by the nearest male to remain near himself as long as possible, but as the space he can hold is limited and soon filled, his neighbors attempt to steal from his harem, which gives rise to fierce contests, in which, not infrequently, the female is the victim and is maimed or killed, and the young (pups), perhaps just born, are trampled and crushed; hence it is evident that a superabundance of males on the breeding grounds is not desirable, and it is also evident that an intelligent and carefully applied system of killing males only must result favorably to seal life, by preventing overcrowding, and thus removing the cause of a constant warfare which could not fail of being fatal to vast numbers of females and young of both sexes.

To myself, as having the interest of my employer at heart, the healthful condition of the “rookeries” and their constant expansion was a source of gratification in all respects, and especially as in full evidence

that the business was conducted on correct principles. Of this I am fully convinced, and were I to have occasion to assume control of the seal interest (outside destruction being prevented), I should most assuredly follow the precedent established by the Alaska Commercial Company during the first ten years of its lease of the Islands.

Judicious management by lessees.

Within a few days after landing (it may be but a few hours or even minutes, as I have seen) the female gives birth to her young, but one being brought forth each year. The

Pups.

reported occasional birth of twins is not verified. These little ones, "pups," as they are called, are comparatively helpless, particularly awkward in movement, and, unlike the hair seal, are unable to swim. They are nursed by the mother, who, after copulation has taken place, is permitted by the old male to go at will in quest of food. At about six weeks old the young gather in groups and shortly after learn to swim, but depend for a long period upon the mother for sustenance, hence her destruction must result in the death of the young through starvation.

Unable to swim.

Learning to swim.

On the approach of inclement and wintry weather the seals migrate to find places where food is abundant and where the climatic conditions suit them best; but it is notable that they are governed in this solely by consideration of their own comfort and convenience, and not by any fixed or even approximate time.

Migration.

Indeed, so well are the people of the Islands aware of their habits in this respect that they carefully watch for the approach of ice or of severe storms from the northwest before taking their supply of seals for winter food.

I have seen many seals upon the Island each month in the year, with a possible exception of the month of March; and I have been informed that, since I left the service, seals have been seen and captured on shore in this month also. They evidently have no fixed or definite "hauling ground" to visit, as it would have been discovered long since, but as they can sleep as well as find food at sea, they have no occasion to land until warned by the reproductive instinct to return to the place of their birth—their home—which they do, and are often found at precisely the place occupied during the preceding season or seasons. In evidence of this I have observed seals bearing unmistakable marks for identification return to the same spot year after year.

Seals haul up only on islands.

It was the custom each year just prior to the migration of the young seals to take a certain number, under supervision of the United States Treasury agent, for food of the natives during the winter, and as females were in no case killed, a selection of male "pups" had to be made. This was done rapidly by catching each "pup" by the flipper, and upon releasing the animal, after examination, to send it with the males for slaughter, or with the females for return to the sea. On such, and on other occasions, seals were often marked, or were noted as being marked by scars from fighting among the males; such marks were used to obtain data relative to their return to the Island, and during the latter portion of my stay on St. Paul Island such marked animals were seen and identified in the herd or on breeding grounds.

Killing pups for food.

These cases were sufficiently numerous to warrant my present belief

that if such marking had been constantly practiced extensively, as might easily have been done precisely as in case of a band of cattle on the plains with all the young, it would have established their identity and completely shown that the seals do not find a home at any place other than that of their birth.

The erection of "salt houses" at suitable places for curing the seal skins was one of the earliest works undertaken, and several were erected at points convenient to the largest "hauling grounds." In addition to this teams were furnished and skins hauled to the salting places or, in other instances, they were taken by boats as most convenient.

Identification by marking.

Improved methods in management.

In this manner the necessity for long drives was obviated and the work made easier in all respects.

Driving.

The polygamous habit before mentioned naturally results in forcing the young male seals to "haul" from the sea by themselves, which renders their capture less difficult, as they may be driven without disturbing the breeding seals with their young. Seals to be killed were usually, and as a rule, driven at night or very early in the morning when the grass or ground was moist with dew or during the prevalence of fog, and was leisurely performed under direction of experienced hunters, hence the animals were spared the fatigue of traveling on dry ground at unwonted speed.

When not being driven their movements on land are in nowise uncertain or distressing, and they are frequently seen journeying of their own volition from one "rookery" or "hauling place" to another at considerable distance, especially when singly or in small groups; they catch on a strong wind the scent of a herd at a remote point and set out to join it. In connection with the work of driving the seals at frequent intervals it was of special interest to observe that they became less wild or timid, and consequently could be managed more easily in herd.

The "hauling grounds" nearest the "salt houses" were, as a matter of course, most frequently visited by the hunters. At each time of driving some animals were found too large or too small, or otherwise undesirable, and were allowed to escape from among the "killable" herd, and it was the subject of frequent remark that these seals so frequently driven became accustomed to the presence of man, and evidently acquired confidence from the fact that they were not harmed, so far that on being separated from the herd they appeared unconcerned, and not worried or frightened, but would leisurely return to the place whence driven, and, without taking to the water as is their habit when frightened, would remain until, on the arrival of others in sufficient numbers, they were again driven, only to be released and returned as before.

Tameness of seals.

These repeated drivings did not apparently injure the animals in the least. Injuries through accident resulted at intervals, but most of those were slight, and recovery soon followed. That the driving of the seals as practiced, whether more or less frequently, did not result injuriously to the breeding, is abundantly proven by the results noted after the lapse of several years.

Redriving not injurious.

The area of "rookeries" constantly expanding was filled with animals evidently healthy and strong; vigorous males were in abundance, as shown by the increase of young, and by the fact that the number of barren females was not increased. Superannuated males were found

as usual, but during the time of my residence no unusual lack of health, strength, or vigor was seen among the seals of whatever class or age.

During my long and constant residence I became interested in all matters pertaining to the welfare of the people residing upon the Islands, and have since, through an extensive acquaintance with Agents and employés of the Lessees, been constantly advised as to events transpiring there from year to year.

From statements made by such personal acquaintances and friends

Decrease of seals.

I became aware of a rapid decrease in seal life in Alaska, and reports of pelagic sealing, as made public through the press, combined with previous personal knowledge of affairs as existing prior to 1882, leaves no possible doubt as to the cause of such decrease of seals. Pelagic sealing as practiced prior to the year 1882 had no apparent effect upon seal life, and even when to this was added the taking of a definite number year after year under lease from the United States Government, there was still a constant

increase of seals observed; I am, therefore, fully confirmed in the belief that the decrease in their numbers is due solely to the indiscriminate killing at sea of all

Pelagic sealing the cause.

ages, regardless of sex, as practiced since 1884.

I have also no doubt as to the final result of this indiscriminate sealing. The dense fogs which prevail over Bering Sea in summer render the drawing of an imaginary line of protection about the seal islands absolutely futile and inoperative for such purpose; and unless full protection is afforded the animals, their extermination must follow as surely as in the case of the seals at the South Shetland Islands, or the buffalo on the plains of North America.

Protection necessary.

H. W. MCINTYRE.

Subscribed and sworn to before me this 16th day of May, A. D. 1892.

[SEAL.]

R. HILDEBRANDT,

Notary Public.

Depositions of Anton Melovedoff, Noen Mandregin, Apollon Borudakaffsky, Aggie Kushin, Nicolai Krukoff, J. C. Redpath, C. L. Fowler, and J. C. S. Akerly, residents on St. Paul Island.

DECREASE OF HERD.

TERRITORY OF ALASKA, U. S. A.,

The Island of St. Paul.

Before me, F. H. Newcomb, a first lieutenant in the U. S. Revenue Marine Service, and executive officer of the U. S. Revenue steamer *Rush*, and authorized and empowered to take testimony and administer oaths, personally appeared Anton Melovedoff, who, being by me first duly sworn according to law, testified as follows, to wit:

Q. State your age and place of residence.—A. I am thirty-six years of age; have resided on St. Paul Island, Alaska, for the past twenty-four years.

Experience.

Q. What is your occupation?—A. I am a sealer; formerly in the employ of the Alaska Commercial Company, and now in the employ of the North American Commercial Company.

Q. Has your occupation been such as to give you an opportunity to notice from year to year the condition of the rookeries and the peculiar-

ities of seal life?—A. Yes; I was chief for about ten years, and during that time had charge of the drives and have always participated in the killing of the seals.

Q. Have you noticed any perceptible difference in the number of seals on rookeries from one year to another?—A. Yes.

Q. What changes have you noticed?—A. They have been getting less every year for about the last six years.

Decrease.

Q. About how much less is the number of seals during the past year than they were six years ago?—A. The number of seals this year are about one-fourth of what they were six years ago, and about one-half of what they were last year.

Extent of.

Q. In what way do you form your above opinion as to the relative number of seals on the rookeries?—A. By the fact that many spaces on the rookeries which were formerly crowded are now not occupied at all.

Q. To what do you attribute the decrease in the number of seals on the rookeries?—A. To the great number of cows killed by poachers, and consequently less pups are born on the rookeries.

Cause of.

Q. How do you know that cows have been killed by poachers?—A. I have handled and seen a great number of skins captured by the Revenue Cutters from the poaching vessels, and there were very few male skins among them; also have seen among them a great number of unborn pups. Twice upon the rookeries I have seen cows killed and left there by the poachers.

Q. Why is it, in your opinion, that more female than male seals are killed by the poachers?—A. Because, first, in the passage of the seals to the islands in the early season the females travel in groups and the males scatter; secondly, after arriving at the islands the males remain on or about the hauling grounds, while the females having their pups to nurse go out into the sea to obtain food.

Majority killed by poachers females.

Females feeding.

Q. How do you tell the skin of a female from that of a male?—A. By the nipples and general appearance.

Q. Have you ever known the lessees to take female skins?—A. No. Any employé killing a female either intentionally or accidentally would be liable to a fine.

No females killed by lessees.

Q. Did you see any dead pups on the rookeries the past season?—A. Yes; I saw lots of them.

Dead pups.

Q. How do they compare with the number observed in former years?—A. Much greater in proportion to the number of females on the rookeries than formerly.

Q. How do you account for this?—A. I think the cows were killed by the poachers while away from the rookeries, and as mother seals nurse none but their own young, consequently the pups whose mothers were killed die from starvation.

ANTON MELOVEDOFF.

Also Noen Maudregin, who, being duly sworn by me as hereinafter certified, testified as follows:

Q. State your age and place of residence.—A. I am thirty-four years of age and am a native and resident of St. Paul Island, Alaska.

Q. What is your occupation?—A. I am a sealer, formerly in the employ of the Alaska Commercial Company, and now in the employ of the North American Commercial Company.

Experience.

Q. Did you see an unusual number of dead pups on the rookeries this season?—A. Yes; I saw more dead pups this year than ever before. I went with Mr. J. Stanley Brown in August to assist him to make a survey of the rookeries and saw dead pups grouped in various places.

Q. Did you see dead pups on all the rookeries you visited?—A. Yes; but some rookeries had more than others.

Q. How do you account for so many dead pups?—A. I think their mothers were killed in the sea by the poachers while away from the islands in search of food.

Q. Why do you think that they were killed by poachers?—A. I was once on board a schooner which was seized at Northeast Point and saw a number of female skins on board.

Q. How does the number of seals on the rookeries this year compare with the number four or five years ago?—A. The number now is about one-fourth of what they were then.

NOEN MANDREGIN.

We, the undersigned, natives, residents of St. Paul Island, who have for a number of years been engaged in the business of sealing on these islands having been present and heard the testimony of Anton Melovedoff and Noen Mandregin, as above given, do hereby concur substantially in their statements.

APOLLON BORUDAKAFFSKY.

AGGIE KUSHIN.

NICOLI KRUKOFF, Second Chief.

Also J. C. Redpath, who, having been duly sworn by me, as herein-after certified, testified as follows:

Q. State your age, place of residence, and occupation.—A. I am forty-seven (47) years of age and have been a resident of the seal islands for the past seventeen years; formerly local agent of the Alaska Commercial Company, now of the North American Commercial Company, and during that time have been engaged in the taking of seal.

Q. Have you noticed any perceptible difference in the number of seals on the rookeries from one year to another? If so, what changes have you observed?—A. Within the last four or five years I have observed a decided decrease in the number of seals on the rookeries.

Q. In what proportion have the seals decreased within the time mentioned?—A. As far as my judgment goes, I should say at least one-half.

Q. How do you account for it?—A. By the numbers, principally females, that are killed in the waters by marauders.

Q. How do you know that the marauders kill females principally?—A. I know that the females, after giving birth to their young on the rookeries, frequent the open sea in search of food, whereas the males frequent the hauling grounds or waters immediately around it. At various times I have seen skins which were seized by the cutters from the poachers, and they were substantially female skins.

Q. Have you noticed any dead pups on the rookeries this past season, and in what proportion to former years?—A. I have seen an unusual number of dead pups this year on the breeding grounds; I may say twice as many as formerly.

Q. How do you account for it?—A. From the fact of their mothers having been killed by marauders. It is a well-known fact that the mothers suckle none but their own pups; consequently the motherless die from want of nourishment.

Cause.

Q. What is the general condition of a healthy pup seal receiving constant attention from its mother?—A. I know him to be completely gorged with milk and his body to be enveloped in fat.

Q. What effect, in your opinion, does the increase in the number of poaching vessels in Bering Sea have upon seal life?—

A. Since the number of sealing vessels has increased, the number of seals coming to the islands has correspondingly decreased.

Effect of increase of poachers.

J. C. REDPATH,
Agent.

Also C. L. Fowler, who, being duly sworn by me as hereinafter certified, testified as follows:

I have been a resident of the seal islands for the past ten years; formerly ass't agent of the Alaska Commercial Co., now agent of the North American Company, and during that time have been engaged in the taking of seals. I have listened to the testimony of J. C. Redpath as above and fully concur in all that he has said concerning seal life, with the exception that the number of seals on the islands this season are in my judgment not more than one-fourth of what they were in 1887.

Experience.

Corroborates Mr. Redpath except as to decrease.

C. L. FOWLER.

Also J. C. S. Akerly, who being duly sworn by me, as hereinafter certified, testified as follows:

Q. State your age, place of residence, and occupation.—A. I am thirty-one (31) years of age, reside in Oakland, California, and am physician on St. Paul Island, in the employ of the North American Commercial Company.

Experience.

Q. Did you see any dead pups on the rookeries this season?—A. Yes; my attention was called to the matter by J. Stanley Brown, who requested me to examine them with a view to determining the cause of their death. I examined a number which had apparently recently died. Their bodies were entirely destitute of fat and no food to be found in their stomachs. After a careful examination, I found no evidence of disease.

Dead pups.

Q. What do you assign as the cause of their death?—A. I believe them to have died of starvation.

Cause of.

Q. Why do you think they died of starvation?—A. From the fact that nearly all the dead on the rookery were pups, and from absence of all signs of disease, emaciated condition of their bodies, and absence of food from their stomachs.

J. C. S. AKERLY, M. D., PH. B.

Sworn and subscribed to before me this twenty-fourth day of November, 1891, at St. Paul Island, Pribilof Group, Bering Sea.

FRANK H. NEWCOMB,
First Lieutenant U. S. R. M.

Witnesses:

MILTON BARNES.

JOHNSTONE H. QUINAN,

Second Lieutenant U. S. R. M.

Deposition of Anton Melovedoff, native Alaskan, and employé of lessees on St. Paul Island.

MANAGEMENT—HABITS.

ST. PAUL ISLAND, PRIBILOF GROUP,
Alaska, U. S. A., ss:

Anton Melovedoff, being duly sworn, deposes and says: I am thirty-eight (38) years of age and I was born on Kadiak Island, Alaska. I came to St. Paul Island in 1864, the first time, and in 1869 the second time. I have resided here since 1869 and I have been constantly employed among

Experience.

the Alaskan fur-seals in all that time. I have had a large and varied experience in all the details of the business as it has been carried on on St. Paul Island, and I have done service in all the departments from the work of a boy to that of First Chief of the Island. I can read and write the English, Russian, and Aleut languages and I can interpret them into one another. I have read a considerable amount of the controversies on the Seal Question since the seals began to decrease so rapidly on the rookeries and I have observed the rookeries and their daily condition since I became First Chief in 1884, which office I resigned in 1891.

In the Russian times, before 1868, the seals were always driven across the Island of St. Paul from North East Point to the village salt house—a distance of 12½ miles—but when the Alaska Commercial Company leased the islands they stopped long driving and built salt houses near to the hauling grounds, so that by 1879 no seals were driven more than 2 miles.

No one ever said in those days that seals were made impotent by driving, although long drives had been made for at least fifty years.

I have never known or heard tell of a time when there was not bulls enough and to spare on the breeding rookeries. I never saw a cow of 3 years old or over in August without a pup by her side. The only cows on a breeding rookery without pups are the virgin cows who have come there for the first time. I never went onto a rookery in the breeding season when I could not have counted plenty of idle vigorous bulls who had no cows.

I have heard it said that the seals are slaughtered indiscriminately on the seal islands, and that the natives take no care of the seals. The contrary of this is true. Rules could hardly be made any more stringent than the rules laid down by the Government and Company Officers for the care and management of the seals, and no people could be more careful in obeying them in letter and spirit than what ours are.

The killing of females is a crime on St. Paul Island, and our Church teaches that it is a sin to kill one, and our people know that the death of a cow seal means one pup less for meat in years to come. Never, since

I came here in 1869, have I known of a cow to be killed unless by accident, and I think there has not been 10 cows killed out of every 85,000 seals killed every year from 1870 to 1889.

When I first went on a drive I remember how the Chiefs talked to me about being careful of how I went on the hauling grounds; how I must not disturb the breeding rookeries, and that I must walk as slow as I could when driving, and stop and let the seals rest occasionally.

I believe the same instructions were given at all times by the Chiefs

to our people, and I think they have been generally very faithfully obeyed. The bulls and cows being on the breeding rookeries all through June and July, while the killing of the bachelors for skins is taking place, there is no reason why a cow should be driven or killed in the two months named, and it is a very rare case to see a cow on the killing grounds at this time and still rarer to have one killed.

After the killing season is ended and the breeding season is over, the cows do mix up with the bachelors on the hauling grounds, and they are often driven when we make a drive of seals to kill for food, and sometimes one or two is clubbed by accident. With this exception there are no cows or females ever killed on the seal islands.

I was First Chief from 1884 to 1891, all through the years of the decrease and controversy, and it has been my duty to inspect the rookeries and seals from time to time and to report the condition of both to the Government and Company Agents. It has been my duty to thoroughly inform myself of the number of male seals—bachelors—on each rookery, and to select the grounds to be driven from every killing day throughout each killing season, and I believe I never allowed the seals to be overdriven or the drives to be made too often. I remember seeing an occasional sealing schooner in Bering Sea as long ago as 1878, but it was in 1884 they came in large numbers. At first it was supposed they intended to raid the rookeries, and we armed a number of men and kept guard every night, and we drove off any boats we found coming to a rookery. Sometimes in a dense fog or very dark night they landed and killed a few hundred seals, but the numbers taken in this manner are too small to be considered.

Raids.

About 1886 I noticed that the lines of former years were not filled with cows, and every succeeding year since then has shown a more marked decrease. In 1889 the bachelors were so few on the hauling grounds that the standard weight of skins was lowered to 5 pounds, and hundreds were taken at only 4 pounds in order to fill the quota of 100,000.

Decrease.

Decrease in weight of skins.

It was noticed by everyone on the Island at this time that as the seals decreased on the rookeries from year to year the number of dead pups increased, until in 1891 the rookeries were covered with them. From 1884 the schooners kept on increasing, until in 1891 there was more than one hundred. These schooners care very little about coming to the islands to take seals on the land, for they only have to hover around the fishing banks from 50 to 200 miles away and take all the seals they want. It is to these banks the cow seals go to feed after the birth of their young, and it is here they are shot and killed and the pups are left to starve and die on the rookeries.

Dead pups.

Increase of sealing fleet.

Females feeding 50 to 200 miles from islands.

Last year I seen thousands of such pups, and I saw many of them opened, and in all cases there was not a sign of food in their stomachs. I never seen a pup that had a mother living to suckle it look poor or sick or starved; nor did I ever see or hear of a sick or diseased seal, although I have eaten the flesh of the fur-seal all my life, and it is and has ever been the staple meat ration of our people.

Seal meat is cooked at the Company house every day while seals are to be had, and it is eaten by all the white men on the Island. Men talk of epidemics among seals and of impotent bulls on the rookeries, but those who have spent a lifetime on the Seal Islands, and whose business and duty it

No sickness or disease among seals.

has been to guard and observe them, have no knowledge of the existence of either. An impotent bull dare not attempt to go on a rookery, even had he a desire to do so. Excepting the extremely old and feeble, I have never seen a bull that was impotent.

The seals come to the islands every year from the southward, through the passes of the Aleutian Islands; and the bulls reach the islands late in April or early in May, and they continue to haul out till June. They select their stations on the rookeries, and I believe they generally return to the spot they occupied the previous year; and they stay there till August or September without food or water, and without much rest or sleep. The cows begin to haul out early in June and they continue to haul out till about the middle of July; and the pups are born soon after the cows land on the rookeries. When the pup is born it is utterly helpless and would drown if put into water. Those born nearest the water are often drowned in the surf when the sea is rough in stormy weather. When the pup is a few days old the cow goes into the sea to feed, and as the pup grows older the cow will stay longer and longer, until sometimes she will be away for a week. When the cows return they go to their own pups, nor will a cow suckle any pup but her own. The pups would suck any cow that would let them, for they do not seem to know one cow from another. At 7 or 8 weeks old the pups learn to swim by first paddling in the shallow water, but after learning to swim they appear to prefer to stay on land until the cold weather drives them off in November.

Until 1891 we were allowed to kill several thousand pup seals for food in November about the time they were ready to leave the Island. We generally killed ten or twelve for every person on the Island, and when we killed them they were always found to be full of milk.

The bachelors commence to haul out in May, and they haul out till late in July, the older ones coming early and the younger ones later; and I have found that the seals killed in May and early June were fat and that their stomachs were full of food, principally codfish, and that later in the season they were poor and had nothing in their stomachs. My opinion, therefore, is that none but the mother seals go out in the sea to eat during the time the herds are on the islands, and this accounts for the great number of cows shot by the sealing schooners in Bering Sea during July, August, and September. I was visiting in San Francisco in the winter of 1890-'91, and I worked in a fur store during several months of my stay there, and I was called on to handle and inspect thousands of the skins taken by schooners in Bering Sea, and they were nearly all cow-seal skins.

Only mother seals leave the islands for food. Skins inspected by him in San Francisco those of cows.

I know of no other explanation than this: The cows are shot and killed when they go into the sea to feed and the pups die on the rookeries. This, I think, is the true solution of the vexed question, "What has become of the seals?" When the season ends and the compact family organization breaks up, the bulls begin to leave the islands, going away slowly through September and early October before they are all gone.

The bachelors, cows, and pups go in November, the older bachelors leaving late in October and the pups in November. Sometimes in good,

mild weather bachelors are found and killed for food late in January.

The movements of the seals are governed quite considerably by the weather. When they do leave the Island they go southward and pass once more through the passes of the Aleutian Islands and out into the North Pacific Ocean.

It is usually supposed that seals are like wild animals. This is not so. They are used to the natives and will not run far from them. The little pups will come to them, and even in the fall when they are older we can take them up in our hands and see whether they are males or females. We can drive the seals about in little or large bands just as we want them to go, and they are easy to manage. We protect and take good care of the seals, and if they were not killed in the sea we could make them increase upon the islands so that they would be as many as before.

Tameness of seals.

ANTON MELOVEDOFF.

Subscribed and sworn to before me, an officer empowered to administer oaths under section 1976, Revised Statutes United States, this 10th day of June, 1892, St. Paul Island, Alaska.

WM. H. WILLIAMS,
Treasury Agent in charge of Seal Islands.

Deposition of Simeon Melovidov, native Alaskan, and employé of the lessees on St. Paul Island.

MANAGEMENT—PELAGIC SEALING.

St. Paul Island, Pribilof Group, ALASKA, U. S. A., ss:

Simeon Melovidov, being duly sworn, deposes and says: I am twenty-five years of age, and I was born at Sitka, Alaska. I came to St. Paul Island in 1867, and resided here ever since.

Experience.

I have a practical knowledge of and am familiar with the fur-seal industry as it is carried on on St. Paul Island. I became an able sealer in 1879, and worked at it ever since, except in the winters, when I was at school. I have driven seals and skinned them and prepared the skins for shipment. I am at present the school teacher on St. Paul Island, and I can read and write English and Russian, as well as the Aleut language. I know that as long as I can remember the driving of seals has been the most carefully done work

Driving.

on the island, and all the drives have been done by our own people, under the immediate orders of the native Chiefs. The aim at all times of all concerned has been to care for and guard the seals, and to do everything possible to preserve and perpetuate seal life. We were always instructed by the Chiefs to drive slowly, and to let the seals stop and rest occasionally, and if a cow happened to join the drive, we had to allow her to drop out and return unmolested to the water.

Care taken of seals.

It has been the policy and practice of the lessees to do everything that could be done to shorten the length of the drives whenever it could be done without injuring or disturbing

Drives made short.

the the breeding rookeries, and to this end salt houses have been built, teams and wagons or boats used so as to reduce the longest drive on St. Paul Island to not to exceed 2 miles. Never since 1879 has a seal been driven on this island to exceed that distance. In like man-

ner rules have been made and rigidly enforced that no hauling grounds shall be driven from oftener than twice in any one week, and it is a rare thing to drive more than once a week from the same place.

No overdriving; no dearth of bulls; no impotent bulls. There is no foundation in fact for the stories told of overdriving of seals. Nor is there any shadow of fact for the idle statements made from time to time about a dearth of bulls on the rookeries or of impotent bulls.

I have talked to the old men of our people, men who can remember back over fifty years, and not one of them knows of a time when there was not plenty of bulls, and more than enough on the breeding rookeries, and no one here ever heard of an impotent bull.

Formerly rookeries well filled.

Full quota taken in short time.

Island between June 1st and July 20 of each year. After 1884, when the original two or three sealing vessels had grown to be a

Decrease since 1884.

on all the rookeries and we found it difficult to secure the quota of skins, and in 1889 the lessees had to lower the standard of weight lower than

Dead pups.

seals decreased we found the rookeries covered with dead pups, which in 1891 lay in heaps upon the ground; and when they were examined by the physician I was present, and I saw them cut open and their stomachs were empty and not a sign of milk in them.

The only solution of the problem is, in my opinion, that the cows or mother seals go into the sea to feed, and while they are there they are shot and killed by pelagic hunters, and the pups, deprived of sustenance, die upon the rookeries.

Until 1891 we were allowed several thousand pup seals for food, and I have often killed them, and saw others killing them, and they were always full of milk. The pups found dead upon the rookeries are always poor and thin and starved and empty.

No dearth of bulls.

All full-grown females have pups.

time

The young males or bachelors that are killed for skins are found to be full of food in May and early in June, but their stomachs are empty when killed in July or later. This shows, I think, that

Only females leave islands for food.

Pups helpless.

Swim only when 6 weeks old.

The flesh of the fur-seal has been eaten by our people ever since their first settling here, and it constitutes the chief part of their daily food, and it is eaten regularly by every white man on the Island; and yet no one here has ever seen or heard tell of

No diseased seals.

a sick or diseased seal.

I believe the seals come to the islands from the southward, and when they leave in November or December they go southward through the passes of the Aleutian Islands and into the Pacific Ocean. I believe the bulls do not eat or drink during their three to four months' sojourn on the island and I know they take little if any rest or sleep.

Go through the passes.

Bulls fast on rookeries

I do not think it is any more trouble to manage the seal herd than it is to manage some of the herds of cattle I have seen in California, and of the two the seals seem to me tamer and less afraid of the natives, to whom they are accustomed.

Domestic character of seals.

We could now, as we always did in the past, handle the young pups in the fall. We can care for and protect the mature seals as well as the cattle on the ranges are cared for and protected, and if they could be guarded from the hunters in the sea we could by good management again make the rookeries as large as before.

After careful inquiry among our oldest people and weighing my own experience and observations, I believe the decrease of the Alaskan fur-seal is due altogether to pelagic hunting.

Pelagic sealing only source of trouble.

SIMEON MELOVIDOV.

Subscribed and sworn to before me, an officer empowered to administer oaths, under section 1976, Revised Statutes of the United States, this 10th day of June, 1892, at St. Paul Island, Alaska.

WM. H. WILLIAMS,

Treasury Agent in charge Seal Islands.

Deposition of J. C. Redpath, agent of lessees on St. Paul Island.

HABITS, MANAGEMENT, AND RULES OF FUR COMPANIES.—PELAGIC SEALING.

[*St. Paul Island, Pribilof Group,*
ALASKA, U. S. A., ss:]

J. C. Redpath, being duly sworn, deposes and says: I am an American citizen, a native of Connecticut, and I am forty-eight (48) years of age. At present I am a resident of St. Paul Island, Alaska. I have resided on the Seal Islands of St. George and St. Paul since my first coming to Alaska in 1875. My present occupation is that of local agent on St. Paul Island for the present lessees, the North American Commercial Company. I have a practical knowledge of and am thoroughly conversant with the habits and conditions of the fur-seal as it exists on the Pribilof Islands of St. George and St. Paul, and also of the methods adopted and practiced in the taking of the skins, and of the several efforts made by the former and present lessees, as experience taught them, to increase the herd and to build up the rookeries and perpetuate seal life. I have had a personal experience of seventeen seasons on the killing grounds in different situations, from that of seal-clubber to foreman, several years of which I have been the resident local agent. My position as local agent has led me to make a careful study of the seal question, and it is my duty to report, from time to time, to the general agent of the lessees the result of my observations.

Experience.

The Alaskan fur-seal is a native of the Pribilof Islands, and, unless prevented, will return to those islands every year with the regularity of the seasons. All the peculiarities of nature that surround the Pribilof Group of Islands, such as low and even temperature, fog, mist, and perpetually clouded sky, seem to indicate their fitness and adaptability as a home for the Alaskan fur-seal; and with an instinct bordering on reason they have selected these lonely and barren islands as the choicest spots of earth upon which to assemble and dwell together during their six months' stay on land; and annually they journey across thousands of miles of ocean, and pass hundreds of islands, without pause or rest, until they come to the place of their birth. And it is a well-established fact that upon no other land in the world do the Alaskan fur-seal haul out of water.

Seals are natives of Pribilof Islands.

Seals return to the islands every year.

Stay on Pribilof Islands six months.

Haul up only on islands.

Early in May the bulls approach the islands and after cautiously and carefully reconnoitering the surroundings haul out and select their stations on the rookeries, where they patiently await the coming of the cows. When they first appear upon the rookeries the bulls are fat and sleek and very aggressive, but after a stay of from three to four months, without food, they crawl away from the rookeries in a very lean condition. In my opinion, the bull seal returns to the spot he occupied the preceding years, and I know of several instances where he could be distinguished by the loss of an eye or a flipper, in which he actually did return for a series of years to the same spot.

Bulls return to same spot every year.

The mother seals or cows commence to haul out about June 10th, and nearly all of them are on the rookeries by July 15th, and I believe they bring forth their young almost immediately after reaching their places on the rookeries. When the pup is from four to six days old, the mother goes into the water for food and, as time passes, her stay becomes longer, until finally she will be away from her pup for several days at a time, and sometimes for a whole week. During these longer migrations she often goes 200 miles from the rookery, and I have been informed by men who were engaged in the trade of pelagic hunting that they had taken "mothers in milk" at a distance of over 200 miles from the Seal Islands.

Arrival of cows.

Arrival of cows.

Birth of pups.

Females feeding.

Mothers killed 200 miles from islands.

No cow will nurse any pup but her own, and I have often watched the pups attempt to suck cows, but they were always driven off; and this fact convinces me that the cow recognizes her own pup and that the pup does not. At birth and for several weeks after, the pup is utterly helpless and entirely dependent on its dam for sustenance; and should anything prevent her return during this period it dies on the rookery. This has been demonstrated beyond a doubt since the sealing vessels have operated largely in Bering Sea during the months of July, August, and September, and which, killing the cows at the feeding grounds, left the pups to die on the islands.

Females nurse only their own pups.

know its dam.

Pups utterly helpless.

Dying from neglect.

At about five weeks old the pups begin to run about and congregate in bunches or "pods;" and at 6 to 8 weeks old they go into the shallow water and gradually learn to swim.

Pups learning to swim.

They are not amphibious when born, nor can they swim for several

weeks thereafter, and were they put into the water would perish beyond a doubt, as has been well established by the drowning of pups caught by the surf in stormy weather. After learning to swim the pups still draw their sustenance from the cows, and I have noticed at the annual killing of pups for food in November that their stomachs were always full of milk and nothing else, although the cows had left the Island some days before. I have no knowledge of the pups obtaining sustenance of any kind except that furnished by the cows; nor have I ever seen anything but milk in a dead pup's stomach. The young males, from 2 to 5 years old, whose skins are taken by the lessees begin to haul out on land in May and they continue to haul out till July. They herd by themselves during the months of May, June, and July, and they do this because, during the breeding season, they dare not approach the breeding rookeries or the bulls would destroy them. Being thus debarred from a position on the breeding rookeries or from intermingling with the cows, they herd together on the hauling grounds, where they are easily approached and surrounded by the natives, who drive them to the killing grounds without disturbing the breeding rookeries.

Not amphibious at first.

Dependence on mother for food.

Arrival of bachelors

Habits of bachelors.

Killing.

Young males killed in May and June when examined are found to be in prime condition, and their stomachs are filled with fish—principally codfish—but those killed later in the season are found to be poor and lean and their stomachs empty; which shows that the males rarely leave the islands for food during the summer months.

Males do not leave; stay on islands during summer for food.

Statute law forbids the killing of the female seal, and nature regulates the matter so that there is no danger of their being driven or killed during the regular killing season, which takes place in June and July when all the "killing for skins" is done; and after all my experience here I am free to say that a small fraction of one per cent would represent all the females killed on the islands since they became the property of the United States.

No females killed on the islands.

The compact family arrangement so tenaciously adhered to during the breeding season becomes relaxed in August, and the females scatter, and a few of them mix up with the young males, and when the natives make a drive for food it occasionally happens that a female will accompany the males, and sometimes one or two may be accidentally killed. I use the word "accidentally" advisedly, because there is no good reason why the natives or the lessees should kill a female seal designedly, as the skin is of no more use or value (if so much), nor its flesh as good for food, as is that of the male. And, excepting accidents, it is a fact that no female seals are, or ever were, killed on the Pribilof Islands since American rules and regulations were established there.

Females killed only by accident.

Females less valuable than males for skins and food.

No females killed on islands.

The regular killing season for skins under the lease begins on June 1st and ends practically on the last of July; and during this period the first-class Alaskan fur-seal skins are taken. The seals are driven from the hauling to the killing grounds by experienced natives under the orders of the native Chief, and the constant aim and object of all concerned

Killing season.

Method of killing.

Care of seals.

is to exercise the greatest care in driving, so that the animals may not be injured or abused in any manner.

As the regulations require the lessees to pay for every skin taken from seals killed by the orders of their local agents, and

Seals not over-driven.

as the skin of an overheated seal is valueless, it is only reasonable to suppose that they would be the last men living to encourage or allow their employes to overdrive or in any manner injure the seals. I know that the orders given to

Positive orders of company to protect seals.

me, as local agent, were always of the most positive and emphatic kind on this point, and they were always obeyed to the letter. Instead of overdriving or neg-

lecting the seals the lessees have endeavored to do everything in their power to shorten the distances between the hauling and killing grounds, or between the hauling grounds and the salt house.

Before the Alaska Commercial Company leased the seal islands in 1870, it was a common practice to drive seals from North East Point to the Village on St. Paul Island, a distance of 12 miles, and from Zapadnie to the Village on St. George Island, a distance of 6 miles, across a very rough and rugged country.

Management.

From Halfway point and from Zapadnie on St. Paul Island, seals were driven, respectively, 5 and 6 miles.

When the Alaska Commercial Company took control of the islands the drive from North East point was prohibited, and a salt house and other necessary buildings erected within 2 miles of the killing ground, and all the skins taken there were salted and stored and shipped from North East Point. In 1879 a killing ground was made, and a salt house built at Halfway Point, within 2 miles of the hauling grounds, and all skins taken at the Point are salted there. At Zapadnie, the same year, a killing ground was made within a mile of the hauling ground, and the skins taken there are taken to the Village salt house in boats, or, when the weather is unfavorable, by team and wagon.

Driving.

Since 1878 there has not been a drive made on St. Paul Island to exceed 2 miles. At Zapadnie, St. George, a salt house was built about 1875, and the 6 mile drive prohibited, and a trail made at great expense across the Island, over which the skins are taken on pack saddles to the Village. Since 1874 no seals have been driven on St. George Island to exceed 2½ miles.

Strict rules.

Although the seals are comparatively tame after being on the land for a short time, and do not get scared so easily as is commonly supposed, the rules and regulations of the Treasury Department are very strict on the question of absolute protection to the seals on the Islands, and the Treasury Agents have always most rigidly enforced them.

It is unlawful to fire a gun on the islands from the time the first seal appears in the spring until the last one leaves at the end of the season; and in order to properly enforce this

No shooting allowed.

law, the firearms are taken from the natives and locked up in the Government house, in care of the Treasury Agents.

No person is allowed to go near a rookery unless by special order of the Treasury Agent; and, when driving from the hauling

Rookeries not disturbed.

grounds the natives are forbidden to smoke or make any unusual noise, or to do anything that might disturb or frighten the seals. All driving is done when the weather is

Driving.

cool and moist, and when the condition of the weather demands it, the drives are made in the cool of the night; and in no case are seals driven at a higher rate of speed than about

half a mile an hour. So carefully is the driving done that it has been found necessary to divide the native drivers into several "watches" which relieve each other on the road, because, the pace being so slow, the men get cold.

From 1875 to 1883 it was no uncommon thing for the lessees to take the annual quota of 100,000 skins between June 1st and July 20, and yet there was no sign of any decrease, but rather an expansion of most of the rookeries.

Quota taken from
1875 to 1883.

I do not pretend to be able to say how many seals there are, or ever were, on the rookeries; nor do I believe anybody else can tell; for the rookeries are so broken and filled with rocks it is impossible to estimate the number of seals upon them with any approach to accuracy. The lines of expansion and contraction are plain enough, and can be seen and understood by the whole community.

Until 1884 sealing schooners were seen but very seldom near the islands or in Bering Sea, and the few seals taken by the hunters who raided the rookeries occasionally are too paltry to be seriously considered, because the raids were so few, and the facilities for taking many seals off so utterly insignificant. In 1884 the sealing schooners became numerous. I believe there were about thirty in the sea that year, and they have increased very rapidly every year since, until now they are said to be about one hundred and twenty.

No poaching before
1884.

Pelagic sealing in-
creasing since 1884.

As the schooners increased the seals decreased, and the lines of contraction on the rookeries were noticed to draw nearer and nearer to the beach, and the killable seals became fewer in numbers, and harder to find. In 1886 the decrease was so plain that the natives and all the agents on the islands saw it and were startled; and theories of all sorts were advanced in an attempt to account for a cause.

Simultaneous de-
crease of seals.

Marked decrease in
1886.

A dearth of bulls on the breeding rookeries was a pet theory of one or two transient visitors, but it only needed a thorough investigation of the condition of the rookeries to convince the most skeptical that there were plenty of bulls, and to spare, and that hardly a cow could be found on the rookeries without a pup at her side.

Theories.

For five years I have given this particular subject my most earnest attention, and every succeeding year's experience has convinced me that there is not, and never was, a dearth of bulls. The theory of impotency of the young bulls driving when young is not worthy of consideration by any sane or honest man who has ever seen a bull seal on a breeding rookery; and as I have already answered the question of over driving I will only add here that no young bull ever goes upon a breeding rookery until he is able to fight his way in, and an *impotent* bull has no desire to fight, nor could he win a position on the rookery were he to attempt it. The man is not alive who ever saw a six or seven year old bull seal impotent.

No dearth of bulls.

because of over

Young bulls not im-
potent.
No overdriving.

Bulls six years old
never impotent.

Another theory, equally untrue, was that an epidemic had seized the herd; but investigations of the closest kind have never revealed the death, on the islands, of a full grown seal from unknown causes. Let it be remembered that the flesh of the seal is the staple diet of the natives and that it is eaten daily

No epidemic.

by most of the white employ  s as well; and yet it is true that a sign of taint or disease has never been found on a seal carcass in the memory of man. It was not until so many thousands of dead pups were found upon the rookeries that the problem was solved.

No sign of disease.
Dead pups.

The truth is that when the cows go out to the feeding grounds to feed they are shot and killed by the pelagic hunter, and the pups, deprived of sustenance, die upon the rookeries. Excepting a few pups killed by the surf occasionally it has been demonstrated that all the pups found dead are poor and starved, and when examined their stomachs are found to be without a sign of food of any sort. In 1891 the rookeries on St. Paul Island were covered, in places, with dead pups, all of which had every symptom of having died of hunger, and on opening several of them the stomachs were found to be empty.

Rookeries covered
with dead pups.

The resident physician, Dr. Ackerly, examined many of them and found in every instance that starvation was the cause of death. The lowest estimates made at the time placing the number of dead pups on the rookeries at 25,000

is too high.

It has been said that man can do nothing to facilitate the propagation of the fur-seal. My experience does not support this. The reservation of females and the killing of the surplus males, so that each bull can have a reasonable number of cows, is more advantage to the growth of the rookeries than when in a state of nature bulls killed each other in their efforts to secure a single cow.

Propagation should
be regulated, other-
wise the bulls kill
one another.

The same care can be and is exercised in the handling and management of the seal herd as is bestowed by a ranchman upon his bands of ranging stock, and is productive of like results. The seals have become so accustomed to the natives that the presence of the latter does not disturb them. The pups are easily handled by the natives, and formerly, when used as an article of food, thousands of pups were actually picked up and examined, in accordance with Government requirement, to avoid the killing of a female. So easily are the seals controlled that, when a drive of "bachelors" is made to the killing grounds, a guard of two or three small boys is sufficient to keep them from straying, and from the general band any number from one upwards can be readily cut out. It is possible in the future, as it has been in the past, to reserve unmolested suitable areas to serve as breeding grounds; to set aside each year a proper number of young males for future service upon the rookeries, and by the application of the ordinary stock-breeding principles not only to perpetuate but to rapidly increase the seal herd.

Breeding grounds
desirable.
Stock-breeding
principles applicable
to seals.

To one who has spent so many years among the seals as I have and who has taken so much interest in them, it does appear to be wrong that they should be allowed to be so ruthlessly and indiscriminately slaughtered by pelagic hunters, who secure only about one-fourth of all they kill. There is no doubt in my mind that unless immediate protection be given to the Alaskan fur-seal the species will be practically destroyed in a very few years; and in order to protect them pelagic hunting must be absolutely prohibited.

Waste of life.

Protection neces-
sary.

N. B.—The foregoing is substantially the same testimony that I gave to the commissioners who visited the islands in 1891.

J. C. REDPATH.

Subscribed and sworn to before me, an officer empowered to administer oaths under section 1976, Revised Statutes of the United States, on this the 3d day of June, 1892, at St. Paul Island, Alaska.

WM. H. WILLIAMS,
Treasury Agent in Charge of Seal Islands.

Deposition of George H. Temple, assistant agent of lessees on St. Paul Island.

HABITS. MANAGEMENT.

STATE OF VERMONT,
County of Orange, ss:

George H. Temple, having been duly sworn, deposes and says: I am 32 years old; a native of Vermont, where I now reside. I was bred to the occupation of farming, and am at present a hardware merchant in my native town of Randolph.

Experience.

From 1880 to 1882 I was employed by the Alaska Commercial Company at St. Paul Island, Alaska, as assistant agent, and in that position became familiar with the work of handling, driving, and herding the killable seals, and with the habits and peculiarities of the breeding seals on the rookeries, both of which have, in the main, been accurately and intelligently described by H. W. Elliott in his "Report on the Seal Islands of Alaska," published by the Department of the Interior, Census Office, 1884. I think he might, however, have made his description of the animals and the manner of obtaining their skins for market more intelligible to the ordinary reader by following more closely the analogy between the seals and farm animals, which invariably strikes the observer who is familiar with the rearing, handling, and slaughtering of both.

A farmer on going to the seal islands at once notices, as I did, that the term "seal hunting," so called, conveys no idea of the business of taking seals for their skins as it is there carried on. It is in no sense "hunting," the work of bringing in for slaughter from their accustomed haunts and slaying such number of killable seals from day to day as will serve as a day's work for those engaged in the killing being in no way different from that pursued by the farmer in driving up his farm herd and selecting and killing such as he sees fit; the only difference being that, in the case of the seals, the pasture in which they feed is the broad ocean, out of which the seal farmer can not drive them. He must wait until they come on shore; but he can count with absolute certainty on their coming within his reach in due time, provided only their natural enemies oppose them, and they are spared while at sea by their human enemies, who may, with perfect propriety, be termed "seal hunters."

Domestic character of seals.

The analogy can be further profitably followed by comparing the system usually pursued in breeding domestic animals with the methods adopted by the late lessees of the seal fisheries in preserving all the female seals, and enough males for breeders, and also in their manner of driving, yarding, herding, selecting for slaughter and for breeding, handling the young, and generally in the management of the herd; the exception in this respect being found chiefly in the fact that the seals, after they are a few months old, can not be manipulated with the hands, because of their propensity to bite, but must be always kept at arm's length by the herdsman's seal

Analogous to farm animals.

club, in the use of which he becomes so expert that, without striking the seal or in any way injuring him, he protects himself most thoroughly against the snapping jaws and sharp teeth by which he is confronted.

Before the young seal leaves the island for the first time, in the year of his birth, he is less vicious, or less expert in the use of his teeth, and may be picked up by the flippers, or, if necessary, marked or branded; and at the proper season of the year I think 80 or 90 per cent of all the young could be brought up from the beaches and so dealt with.

I make these statements because I have heard it said that the seals are wild animals and can not be identified as belonging to any particular herd or rookery when off on the feeding grounds where they are captured by the marine seal hunters.

I again visited St. Paul Island and remained there several days in the summer of 1885, but saw no evidence then, or when formerly on the island, to lead me to think that the lessees were damaging the rookeries, or doing anything different from what a judicious regard for the future of the industry would dictate.

In giving this evidence I am as free from prejudice as is possible when entertaining, as I do, a feeling that the late lessees treated me in some measure unjustly, nor have I any interest whatever in the seals or the products of the sealeries.

It is asserted by Mr. Elliott, in a report made subsequent to that above cited, from which I have seen extracts, that permanent injury results to the male seal from the practice of repeatedly bringing him up to the killing grounds and letting him go again because of some defect in his skin, or for the reason that he is needed as a breeder. He does not say what he saw among the old males to justify any such conclusion, and I do not believe it is warranted by the facts. When the seals get back to the water after a long drive, they are, of course, considerably fatigued, but leap as gaily as usual after a little rest, and play with their fellows on shore with their accustomed vivacity on the day following the drive.

There are always some disabled seals on the beaches described by Mr. Elliott as "hospital rookeries," where those maimed in the conflict for supremacy on the breeding grounds and decrepit old males too old for further service, haul up to rest and heal their wounds. The number of such animals is never large in proportion to the whole herd, and all others represent the highest type of virility, vigor, and strength.

GEO. H. TEMPLE.

Subscribed and sworn to at Randolph, Vermont, this 13th day of June, A. D. 1892. Before me,

J. B. ELDRIDGE,
Notary Public.

[SEAL.]

Deposition of Seth M. Washburn, assistant agent of lessees and teacher on St. Paul Island.

MANAGEMENT—HABITS.

STATE OF VERMONT,
County of Windsor, ss:

I, Seth M. Washburn, depose and on oath say: That I am 42 years of age, and reside in Bethel, Vermont, where I have been a merchant since 1878. I was born in Randolph, Vermont, and lived there until 1874. I was a graduate of the State Normal

Experience.

School of Vermont, and in 1874 was employed by the Alaska Commercial Company, the late lessees of the Alaska seal fisheries, to go to the Island of St. Paul of the Pribilof group, as Assistant Agent and teacher. I went there in 1874 and remained continuously until 1877, my residence there covering four sealing seasons. My duties as Assistant Agent required me to familiarize myself with the habits of the seals, the manner of driving them from the rookeries, and the killing them and preserving their skins. In doing this the rookeries were under my daily observation. Moreover, from the isolated character of the life on St. Paul Island, and the fact that the whole business and resources of the islanders and the other employes of the lessees were based on the seal product, the habits and peculiarities of these animals was the principal and overshadowing subject of conversation and observation among the inhabitants.

The density of the seal population on the rookeries is the same each season; an increase of seal life simply extends the space occupied by the rookeries. By observing each year the extent of ground covered with breeding seals, and comparing it, one year with another, an observer can easily determine whether the seals are stationary, increasing, or diminishing in numbers. From year to year, when I was at St. Paul, the number of seals increased, and the increase was constant. This I know from my own careful observation of the herds and rookeries, and I estimate the number of seals at St. Paul, in 1877, at 5 to 10 per cent, at least, greater than the first season I was there (1874).

Rookeries.

Increase, 1874-1877.

The number of non-breeding males of suitable age and body for killing was in each year largely in excess of the number permitted to be killed by the lease, and was plainly large enough to replenish in due time the stock of breeding males in such numbers that the entire herd was enlarged from year to year by a gradual and healthy increase. These facts observed by me were also noted by the natives and other residents, and were the cause of rejoicing and congratulation among them.

Plenty of males.

After I learned the business one of my duties was to have charge of one of the gangs of natives engaged in driving the seals from the rookeries to the killing grounds and there slaughtering them. Such seals as we did not slaughter for their skins were allowed to return at will to the rookeries and were in no way injured by such driving and return; on getting back to the place whence they started they were, after a short rest, as playful and active as ever. The seal usually makes one rookery his home, and so the same seal, when not up to the standard for killing, is driven several times in one season to the killing grounds to find his way back to the rookery when those suitable for killing have been dispatched. They are as fresh for the succeeding journeys, which take place at intervals of several days, as for the first one. The methods of the lessees in killing their quota and in care for the preservation of the great body of the herd were, in my judgment, as judicious as could be taken.

Driving.

Seals not injured by driving.

Management.

Every member of the entire sea herd of the island (except the new-born pups in the first three or four weeks of their life) had, when I was there, and, I understand, still has, immediate money value; and the entire herd is, each season, as wholly and completely in the actual power and possessive control of the employes of the lessees as my father's cattle on his farm were in mine when I was a boy and he gave me charge of them. The only

Money value.

thing to prevent the immediate conversion of the entire herd into marketable skins, and so into cash, was the limit of the catch imposed by the terms of lease, unless, that limit being removed, the inhabitants were possessed of foresight and public spirit enough to preserve the herd for their own future profit or the future public good.

The seal has many traits of a domestic animal, and his birthplace is so certain a home for him that, in its habitable season, Domestic nature of seals. he does not need to be hunted, but can be found there as regularly as a farmer's cattle at night. To me it seems a pity to wastefully destroy his useful race when pasturing in the great oceanic international common.

SETH M. WASHBURN.

Subscribed and sworn to at Bethel, Vt., this 13th day of June, A. D. 1892, before me,
[L. S.]

GUY WILSON,
Notary Public.

TESTIMONY RELATING TO ST. GEORGE ISLAND.

Deposition of George R. Adams, agent of lessees on St. George Island.

MANAGEMENT AND PELAGIC SEALING.

STATE OF CALIFORNIA,

City and county of San Francisco, ss:

George R. Adams, having been duly sworn, deposes and says: I am a citizen of the United States and a resident of Paso Robles, Cal., where I am employed in general business. I first went to Alaska in the bark *Golden Gate*, Captain Seammon, June 10, 1865, on the American Telegraph Expedition and explored the country about Bering Sea from St. Michaels north returning in September, 1867. In the spring of 1868 I returned to Alaska soon after its purchase by the United States. I went for the late John Parrott, of San Francisco, direct to the islands of St. Paul and St. George. We were the first parties who went to those islands after the purchase, and commenced taking seals about the 1st of July. We and other parties took about 65,000 that year from St. George Island alone. We killed no females except by accident, for the reason that we thought at that time the skins of females were worthless.

Experience.

Catch on St. George Island in 1868.

No sealing was done at the Pribilof Islands during the seasons of 1869 and 1870 except for food for the natives, the Government having declared these islands a reservation, and the lessees did not perfect the lease in time to commence operations that year (1870).

No sealing on islands in 1869 and 1870 except for food.

From the start I was employed by the Alaska Commercial Company and remained in their service until 1876, in charge of the companies' business on St. George Island. In 1871 we took 25,000 seals on that island, and the regular quota each year thereafter. During the season of 1876 I was in charge of their business at St. Paul Island. We had no difficulty during my seven years residence at the island in obtaining the full quota; nor could I discover at any time any diminution of the number of seals annually hauling up at the island. When the period arrived for their coming to land, the shore literally swarmed with seal life. It was the uniform policy of the lessees to carefully preserve and protect for breeding purposes all female seals; and, as their agent, I was instructed to exercise all possible care and caution for the preservation of the female when driving or killing. I observed a perceptible increase annually in the number of females arriving at the island, due, in my judgment, to the care exercised by those charged with their custody. I was also instructed to use the greatest care and caution in driving and killing the bachelor seals in order not to injure those not wanted for their skins, but to drive them back from the killing grounds into the sea.

Experience.

Number killed on island in 1871.

No difficulty in obtaining quota from 1870-'76.

Policy of lessees.

Increase of females.

Care in driving and killing.

Poaching in Bering Sea had not begun in those years, and it was a rare thing to find a dead pup about the shores or on the rookeries. I had frequent occasion after the close of the breeding season to visit all parts of the island, and there was no appearance of gaunt or starved seals. Occasionally a dead pup was found that had been crushed to death by the bulls in their encounters with each other.

I have always taken a great interest in the sealing industry, and felt a great desire to have them protected from destruction, and I say, without hesitation, that the great decrease in the number now annually arriving at the seal islands is due entirely to the killing of female seals by pelagic hunters.

It has been my custom in the last few years to examine the logs of sealing vessels and to converse with officers and hunters of such vessels in order to obtain what information I could as to the methods employed by hunters, and the loss of seals occasioned in such pursuit. From the logs I learned that in many instances one hundred rounds of ammunition had been fired to each skin secured, and often more; and on an average I found that not over five seals to the hundred shots had been obtained. The logs further showed that a large number had been wounded and lost.

I also ascertained from the logs, and from conversation with masters of sailing schooners, that not one seal out of ten killed or wounded had been caught. These inquiries I pursued at San Francisco until quite recently.

The chief killing by poachers was done between the passes of Aleutian Archipelago and the Pribilof Islands.

I have no exact information as to the proportion of male and female seals killed by pelagic hunters, but it is my firm conviction, from my knowledge of the habits of the males in not leaving the islands during the breeding season and the well-known fact that mother seals go great distances in search of food while nursing their young, that the females are slaughtered in great numbers during their journeys to and from the islands by pelagic hunters.

GEORGE R. ADAMS.

Subscribed and sworn to before me this 6th day of April, 1892.

[SEAL.]

E. A. STOWELL,
Notary Public.

Deposition of Harry N. Clark, employé of lessees on St. George Island.

MANAGEMENT, HABITS, AND PELAGIC SEALING.

STATE OF CALIFORNIA,
County of Tehama, ss:

Harry N. Clark, having been duly sworn, deposes and says: I am 32 years old, a native of Vermont, and now a resident of Vina, Tehama County Cal., and by occupation foreman of vineyard cultivation at Governor Stanford's Vina Ranch.

From 1884 to 1889, inclusive, I was in the employ of the Alaska Commercial Company of San Francisco, on St. George Island, Alaska, engaged through each sealing season as "boss" of a gang of seal-hunters, and in the winter, excepting that of 1886 and 1887, as teacher and storekeeper on that island.

My work as the leader of the "sealing gang" gave me as perfect opportunity as could be had for studying the habits and peculiarities of the seal and determining the best manner of caring for them.

The condition of seal life was the principal topic of discussion and thought during the summer months, and the only one of particular interest. All became familiar with it, and watched every change in the breeding grounds or number of killable seals as carefully as a farmer watches the increase or decrease of his flocks and herds.

The compact order in which the breeding seals arrange themselves upon the "rookeries" upon their arrival in the spring, completely filling the ground first taken before spreading over adjoining space, enables one to see at a glance, as the season advances, whether, if he remembers the land marks to which they filled out in former years, they have grown more or less numerous.

I did not notice any falling off in the size of the "rookeries" from the land marks to which they came when I first saw them during the first two years I was on the island, and all agreed, in discussing the matter, that the seals had never been more numerous than they then were; but in the following years, and particularly in 1888 and 1889, no other opinion was heard than that the animals had very greatly diminished, and in this opinion I fully coincided.

No decrease in size of rookeries during 1884 and 1885.

Subsequent decrease.

Dead "pup" seals, which seemed to have starved to death, grew very numerous on the "rookeries" these latter years; and I noticed when driving the "bachelor" seals for killing, as we started them up from the beach, that many small "pups," half starved, apparently motherless, had wandered away from the breeding grounds and became mixed with the killable seals. The natives called my attention to these waifs, saying that it did not use to be so, and that the mothers were dead; otherwise they would be upon the breeding grounds.

Dead pups.

While I was upon the island the seal herd was, I believe, most wisely managed, so far as we were able to control them; but we could not prevent the destruction which was carried on by Victoria and San Francisco seal-hunters from vessels and boats beyond our reach.

Management.

I never noticed any disproportion of the sexes that would lead me to suspect that the "bull" seals were too few, nor more than an occasional barren "cow." These latter were so few as to excite no remark; but if any such disproportion did, in fact, exist in 1888 and 1889 it was the fault of those who killed them at sea, because it never occurred at all until the marine hunters became numerous and aggressive. I mention this matter here because, since I left the island, I have heard it asserted that the mismanagement there caused the decrease of seal life. The management there was just such as I would follow if all the seals belonged to me.

No disproportion between the sexes.

The driving of the male seals to the killing grounds was done very carefully. If the weather was warm or dry they were allowed frequent opportunity to rest. I am sure the driving did not hurt them in the least.

Driving.

I was reared on a farm, and have been familiar from boyhood with the breeding of domestic animals, and particularly with the rearing and management of young animals; hence a comparison of the young seals with the young of our common domestic species is most natural. From my experience with both I am able to declare positively that it is easier to manage and handle young seals than calves or lambs.

Large numbers of the former are customarily driven up in the fall by the natives, to kill a certain number for food, and all could be "rounded up" as the prairie cattle are, if there was any need for doing so. All the herd so driven are lifted up one by one and examined as to sex, and while in this position each could be branded or marked if necessary.

Possibility of branding and marking.

If the seal rookeries were my personal property I should regard the task of branding all the young as no more difficult or onerous than the branding of all my calves if I were engaged in breeding cattle upon the prairies.

The same force that has heretofore been engaged on the Pribilof Islands in killing seals in the summer could easily drive up and brand, in a few days in the fall months, all the "pup" seals born on the islands.

The young seals at birth are very helpless. They can not swim and seem to have no desire to learn.

Pups learning to swim.

When they are six or seven weeks old, if the beach on which they lie slopes down very gradually to the water and the waves roll in on it, they will voluntarily commence to paddle about and finally get afloat without particular urging from the older seals, but if the rocks are abrupt at the water's edge the old ones must push them over into the sea or seize them by the neck, as a mother cat handles her kitten, and drop them into the water before they will learn to swim. In such cases the "pups" often struggle to get back upon land.

During my stay upon St. George Island several attempts were made by poachers to get on shore and steal the seal, but they succeeded, as far as I am aware, only on three occasions, and in all those three I do not think they killed more than 1,200 or 1,500 seals, including pups. If any others had effected a landing we should have known it, for the rookeries were constantly watched and the natives are very keen in this matter.

Raids on the islands.

During the summer months fogs envelop the seal islands or cover the sea a short distance from them a considerable portion of the time.

Climate.

Sealing vessels are enabled thereby to carry on their work without detection at almost any point, and could and would, I believe, cross any boundary line that might be drawn about the islands and catch seals at will inside of it.

Prohibition within a zone about islands ineffective.

Absolute prohibition necessary.

I do not think sealing can be permitted, with safety to the rookeries, in any part of the sea. If the sealers are given an inch they will take an ell and destroy them.

HARRY N. CLARK.

Subscribed and sworn to this 16th day of May, A. D. 1892, before me.
[SEAL.]

R. HILDEBRANDT,

Notary Public.

Deposition of Samuel Falconer, assistant Treasury agent in charge of St. George Island.

PRIBILOF ISLANDS.

DISTRICT OF COLUMBIA,

City of Washington, ss:

Samuel Falconer, being duly sworn, deposes and says: I am 61 years of age, and am now a wool-grower by occupation.

Experience.

My residence is Falconer, McLean County, State of North Dakota. In 1870, in the month of October, having been

appointed assistant Treasury agent for the seal islands in Bering Sea, I proceeded to said islands, and from that time until August, 1876, I remained constantly in charge of St. George Island, excepting during the winter of 1874-75. For a few days during each one of these years I visited St. Paul Island, never remaining there for any length of time, however. Each season while I was located at the islands I made a careful examination of the breeding grounds on St. George Island, noting particularly the areas covered by them. The result of my observations was that there was marked increase in these areas from 1871 to 1876, and necessarily a corresponding increase in seal life, for no matter whether the seals are few or many in number they always crowd together on the breeding grounds as closely as possible. In my judgment this increase was fully 25 per cent. One fact alone proved conclusively that there had been a considerable increase, for in 1871 I noticed passages left by the old bulls through the breeding grounds for the bachelors to pass to and from the hauling grounds located back of the breeding grounds. In subsequent years these passages were entirely blocked up by the breeders. There was always during these six years an excess of adult, vigorous bulls, for breeding purposes, and large numbers of these hauled up back of and about the breeding grounds awaiting an opportunity to take the place of some wounded or aged bull unable longer to maintain a harem.

Increase in breeding grounds from 1871-1876.

Excess of bulls.

In 1873 I assisted Prof. Henry W. Elliott in making his measurements and estimates of the number of seals on St. George Island. We set up stakes at some distance from the breeding rookeries while they were occupied. Then when the seals were gone we sighted along these stakes to determine the back lines of the rookeries and measured the areas thus determined with a tape line, using our judgment by observing the nature of the ground to determine the curvature of these areas. We then calculated from our observations three seals to a square yard, and multiplying the yards in the areas measured by three made our estimate. I think the measurements were made as accurately as could be done by the means and instruments employed; however, I am convinced that no estimate of any kind, no matter how accurately the measurements are made, would give even approximately the number of seals on the island, for the animals are constantly in motion, coming and going, and there seems to be almost as many in the water as on land. It is as impossible to estimate them as it is to estimate a swarm of bees. But accurate measurements would show conclusively, if made from year to year, whether or not the seals were increasing or decreasing.

How number was estimated.

I have no recollection of ever having seen a dead pup on the breeding grounds, but I have seen a considerable number of silver gray pups—that is, those that have learned to swim—which had been killed by being dashed against the rocks by the surf.

No dead pups on rookeries.

While I was on the island I became familiar with the methods of driving and handling the bachelor seals pursued by the natives, who were the only persons who ever drove, handled, or killed these seals. I am positive the methods can not be improved upon, and that if no other agency is at work in destroying seal life 100,000 bachelor seals can be taken from the Pribilof Islands yearly for an indefinite period, provided the rookeries were in the same condition they were in 1871. Of this I am convinced from the fact that the seals continued to increase

Driving and over-driving.

Management.

during all the time I was upon the islands, when 100,000 were killed every year, except one, when 95,000 were taken. The breeding rookeries were never disturbed in anyway, and most stringent regulations were enforced to prevent their being molested. A female seal was seldom driven, not more than two a season on St. George, and I think they were in all cases barren cows, which had, because of their barrenness, hauled up with the bachelors.

The greatest care was always taken not to overheat the seals in driving them, and when a seal was by accident smothered the skin was removed and counted in the number allowed to be taken by the lessees. There were not, to the best of my recollection, twenty-five seals killed during any one season on St. George by overdriving.

Whenever the sun came out while a "drive" was in progress the driving at once ceased, so great was the care taken not to overheat the seals.

I never saw or heard of a case where a male seal was seriously injured by driving or re-driving. Certainly the reproductive powers were never in the slightest degree impaired by these means. When we consider that the bulls, while battling on the rookeries to maintain their positions, cut great gashes in the flesh of their necks and bodies, are

Vitality.

covered with gaping wounds, lose great quantities of blood, fast on the islands for three or four months, and then leave the islands lean and covered with scars, to return the following season fat, healthy, and full of vigor, to go through again the same mutilation, and repeating this year after year, the idea that driving or re-driving, which can not possibly be as severe as their exertions during a combat, can affect such unequaled vigor and virility, is utterly preposterous and ridiculous. To show the wonderful vitality of the male seal, I will give one instance which came under my own observation: A drive of about 3,000 bachelors had been made, and after going a short distance was left in charge of a boy; by his negligence they escaped from his control, and the whole number plunged over a cliff, falling 60 feet upon broken stones and rocks along the shore. Out of the whole number only seven were killed, the remainder taking to the water; and these seven met death, I believe, from being the first to go over and the others falling upon them smothered them.

As long as a seal is not overheated in driving he could be driven any number of successive days without in any way impairing or affecting in the slightest degree his procreative powers, of course always provided the natives use the same methods in driving that they always have done. Seal life I am positive was never affected in this manner on the Pribilof Islands.

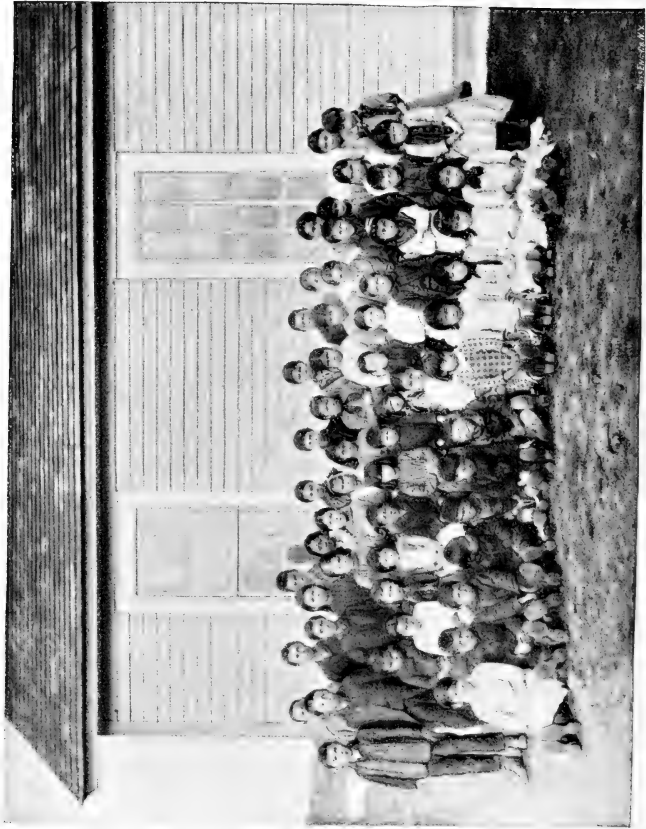
During the time I was on St. George Island there never was a raid on the rookeries to my knowledge, and I never heard of any such raid ever having taken place.

I am of the opinion, from what I know of the habits and nature of the fur seal and what I have learned of open-sea sealing, that the Pribilof seal herd should be protected in all waters which they frequent. Otherwise it is only a matter of a very short time before they will be exterminated.

During the six years I was on the islands the condition of the natives was wonderfully improved. When I came there they

Improved condition of the natives.

were partially dressed in skins, living in filthy, unwholesome turf huts, which were heated by fires with blubber as fuel; they were ignorant and extremely dirty. When I left they had exchanged their skin garments for well made warm woolen



SCHOOL BUILDING ON ST. GEORGE.

clothes; they lived in substantial frame houses heated by coal stoves; they had become cleanly, and the children were attending school eight months in the year. They were then as well off as well-to-do working-men in the United States, and received much larger wages. No man was compelled to work, but received pay through his chief for the work accomplished by him. A native could at any time leave the islands, but their easy life and love for their home detained them. When I first went there the women did a good share of manual labor, but when I came away all the hard work was done by the men. I do not recall a single instance in history where there has been such a marked change for the better by any people in such a short time as there has been in the Pribilof Islanders since the United States Government took control of these islands. If the seals became extinct, I can not conceive what these natives would do for a livelihood; they know no other occupation save seal driving, which has been pursued by them and their ancestors for a century. The destruction of the seal herd would result in removing their sole means of sustenance and in their being plunged into poverty, and probable return to barbarism. The only way to keep them from starvation would be to remove them from the islands, and for the Government to support them.

Extinction of seal
means starvation of
barbarism for natives.

SAMUEL FALCONER.

Subscribed and sworn to before me, a notary public in and for the District of Columbia, U. S. A., this 19th day of April, 1892.

SEVELLON A. BROWN.

Deposition of Samuel Falconer, Assistant Treasury Agent in charge of St. George Island.

HABITS.

DISTRICT OF COLUMBIA,

City of Washington, ss:

Samuel Falconer, being duly sworn, deposes and says: I am 61 years of age, and am now a woolgrower by occupation.

My residence is Falconer, McLean County, State of North Dakota. In 1868, during the month of October I went to Sitka, being located there as deputy collector of customs, in which position I remained until September, 1869. Experience.

I then was employed until September, 1870, as purser on board the steamer *Constantine*, plying monthly between Port Townsend and Sitka. In October, 1870, having been appointed assistant Treasury Agent for the Seal Islands, I proceeded to said islands, and from that time until August, 1876, I remained constantly in charge of St. George Island, excepting during the winter of 1874-75. For a few days during each one of these years I visited the Island of St. Paul, never remaining there for any length of time, however. It was necessary, in order that I might fulfill the duties of my office as agent to make a very careful and full study of seal life; my observations being, of course, confined to St. George Island, and I therefore examined the rookeries and their occupants with the particular purpose of acquainting myself with the habits and peculiarities of the Alaska fur seal, and I endeavored to verify all my observations by particularly interrogating the natives on the islands as to each doubtful point.

The fur-seal only lands upon the Pribilof Group of islands. Of this fact I am thoroughly convinced from carefully questioning natives of Alaska and the Aleutian Islands, and also from my coasting experience as purser on board the *Constantine*. In all the years I passed in these localities I never heard of a seal landing anywhere except on the Pribilof Islands.

This seal herd is migratory, leaving the islands in the fall or early winter and returning again the following spring; and it is my opinion that the adult males, called "bulls," return as near as they are able to the same place on the same rookery year after year. In fact the natives pointed out to me one old bull who had returned to the same rock for five years successively.

The reason the seals have chosen these islands for their home is because the Pribilof Group lies in a belt of fog, occasioned by the waters of the Arctic Ocean coming down from the north and the warmer waters of the Pacific flowing north and meeting at about this point in Bering Sea. It is necessary that the seals should have a misty or foggy atmosphere of this kind while on land, as sunshine has a very injurious effect upon them. Then too, the islands are so isolated that the seal, which is a very timid animal, remains here undisturbed, as every precaution is taken not to disturb the animals while they are on the rookeries. The

mean temperature of the islands is during the winter about 26° F., and in summer about 43°. I know of no other locality which possesses these peculiarities of moisture and temperature. The grounds occupied by the seals for breeding purposes are along the coast, extending from high-water mark back to the cliffs, which abound on St. George Island. The young males or "bachelors,"

not being allowed to land on these breeding places, lie back of and around these breeding grounds on areas designated "hauling grounds."

A young seal or "pup" when first born weights from 6 to 8 pounds, is almost black in color, and is covered with a short hair, which changes to silver gray hair when the pup learns to swim.

The place of birth is on the breeding grounds, which takes place soon after the female lands, generally within two days. When first born a pup can not swim, and does not learn so to do until it is six or eight weeks of age. It is therefore utterly impossible for a pup to be born in the water and live. I have noticed that when a pup

of this age is put in the water it seemed to have no idea of the use of its flippers, and was very much terrified. A pup is certainly for the first six or eight weeks of its life a land animal, and is in no sense amphibious. During this period also a pup moves very much like a young kitten, using its hind flippers as feet. A mother seal will

at once recognize her pup by its cry, hobbling over a thousand bleating pups to reach her own, and every other approaching her save this one little animal she will drive away. From this fact it is my opinion that if a pup lost its mother by any accident it would certainly die of starvation, for it would not be allowed to derive nourishment from any other female. A pup, however, seems not to distinguish its mother from the other females about it. When six or eight weeks of age the older seals, generally the mothers, force the young seals into the water and teach them to swim.

Orphan pups die of starvation.

New-born pups not amphibious.

Pelagic birth impossible.

Hauling grounds.

Why seals choose the islands.

Temperature.

Migration.

Lands only on Pribilof Islands.

I have seen a mother seal carry her pup out a little way into the water and force the little animal to use its flippers.

Learning to swim.

Finally, after repeated trials, the pup learns to swim, and from that time on spends a good deal of time in the water; but still the greater portion of these first months of its life are spent on land sleeping and nursing.

A good many pups are killed at this period of life by being dashed against the rocks by the surf, which is particularly violent about these islands.

The only means of sustenance for a pup while it remains on the island is nursing, which it continues till it takes its departure sometime in November, as a rule; but during one ex-

Sustenance of pups.

ceptionally warm winter some seals remained about the island during the whole winter. During this first summer of their existence, after the breeding grounds have been broken up, it is possible to take possession of every pup on the islands and mark them so they could be recognized in the future. I am of the opinion that, provided the weather remained the same the year round as it is in the summer, that the seal herd would stay in the vicinity of the Pribilof Islands during the entire year, for the seal evidently considers these islands its sole home.

The cause of leaving is, as I believe, the approach of cold weather, with snow and ice, and perhaps a lack of

Cause of migration.

food supply. On leaving the island the pup goes southward with his mother and companions through the Aleutian passes into the Pacific Ocean. While I was acting as purser on the steamer *Constantine* I observed during the months of January, February, and March numerous seals in the inland waters or along the coast between Port Townsend and Sitka. Never a day passed but on looking over the rail seal could be seen sleeping on or disporting in the waters. One day in the bay of Sitka I saw several hundred seals asleep in the water, but at the splash of an oar they immediately disappear. These seals were in all cases much more timid than about their island home, where they evidently realize they are practically safe.

During June and the first part of July the females and pups go through the Passes, and, entering Bering Sea, again seek the islands. During their second summer the young seals herd together, the females not going upon the breeding grounds. Again in the fall they leave their home on the approach of cold weather and make the second migration south. After this migration the females, now "two-year-olds" or "virgin cows," go on the breeding rookeries, and the young males on the hauling grounds. The female this season is probably fertilized. As a general rule the impregnation is by the bull, to whose harem she belongs, and not by the young males, as has sometimes been stated. These young males always pursue a female when she is allowed to leave the harem and go in the water, but she refuses them. I am positive from my observations that copulation in the water could not be effectual, and would be a most unnatural occurrence.

Copitation in water impossible.

After this season and the migration following, the three-year-old cow lands again on the breeding rookery and gives birth to one pup; two at a birth is as rare an occurrence as a cow bringing forth two calves, and during my entire experience I never heard of this happening but once. The cow after bringing forth her young remains on the rookery until again fertilized by the bull, which is, I believe, within two weeks. After the fertilization she is allowed to go to and from the water at will, in search of food, which she must

Uniparous.

obtain so she can nurse her pup. She goes on these feeding excursions sometimes, I believe, 40 or more miles from the islands, and as she swims with great rapidity, covers the distance in a short time. She may go much farther, for I have known a cow to be absent from

Females feeding. her pup for two days, leaving it without nourishment for this period. This shows how tenacious of life a young seal is, and how long it can live without sustenance of any sort. The three-year-old male has meanwhile landed on the hauling grounds and is now of the most available age to kill for his pelt.

When the male reaches the age of seven or eight years he seeks the rookeries, and is then able to maintain his position against his fellows. He has come earlier than formerly to the islands, having arrived in May, and after a little investigation

Bulls. has landed upon the breeding grounds, giving battle to all who endeavor to usurp his place. I have seen twenty cows or more about a bull, but of course the exact number in a harem is a matter of conjecture, as many cows are absent in the water at all times after the season has fairly commenced. I am of the opinion a bull can easily and effectively serve fifty or more cows in a season, and I think at first he will fertilize six to eight a day. From their arrival in May for three or four months the bulls remain constantly upon the rookeries, never leaving their positions and never eating or drinking, and sleeping very little. When they arrive they are enormously fat, weighing from 500 to 700 pounds, but when they depart in August or September they are very lean and lank.

Harems. The principal food of the fur seal is fish, which abound in all parts of Bering Sea, except in the neighborhood of the Pribilof Islands during the season the seals are on land. I have seen a fish in the mouth of a seal in the water, and have also seen fish in their stomachs when cut open. It is my belief they eat some kelp also

Food. The above facts in relation to the habits of the fur seals are from my own observations, which have in all cases been corroborated by the natives on the island of St. George, with whom I had many conversations in relation to these matters.

SAMUEL FALCONER.

Subscribed and sworn to before me, a notary public in and for the District of Columbia, U. S. A., this 19th day of April, 1892.

SEVELLON A. BROWN.

Deposition of Samuel Falconer, assistant Treasury agent in charge of St. George Island.

PRIBILOF ROOKERIES.

DISTRICT OF COLUMBIA,
City of Washington ss:

Samuel Falconer, being duly sworn, deposes and says: I am 61 years of age and am now a wool-grower by occupation. My residence is Falconer, McLean County, State of North Dakota. In October, 1870, having been appointed assistant Treasury agent for the seal islands in Bering Sea, I proceeded to said islands and from that time until August, 1876, I remained constantly in charge of St. George Island, excepting during the winter of

Experience.

1874-'75. For a few days during each one of these years I visited St. Paul Island, never remaining there for any length of time, however. Each season while I was located on the islands I made a careful examination of the breeding grounds on St. George Island, noting particularly the areas covered by them; and I now recollect the condition of said rookeries and the approximate area which each of them covered in the year 1874. I have carefully examined the lines drawn by Thomas F. Morgan on exhibits signed by him and marked Exhibits H, I, J, and K; that the lines in red on said exhibits practically represent the areas so covered in 1874; but I think that in some instances, hereafter stated, Mr. Morgan has been a little too conservative in his estimates.

Verification of
charts made by
Thomas F. Morgan,
with corrections

On Starry Arteal Rookery (Exhibit H) the line should be extended along the shore to the eastern limit of the pond, shown on said Exhibit, and should extend nearly as far again up the hillside.

On North Rookery (Exhibit J) the line does not, in my judgment, extend as far back from the shore as it should, as there had been a great increase since 1871 on this particular rookery.

I would further state that there was a perceptible increase in all these areas from 1871 to 1874.

Increase.

I would also state that the spaces indicated as areas over which seals have at various times hauled, on said Exhibits, by J. Stanley Brown (as I am informed and believe), are, to the best of my knowledge and belief, correctly designated.

Verifies charts of J.
Stanley Brown.

SAMUEL FALCONER.

Subscribed and sworn to before me, a notary public in and for the District of Columbia, U. S. A., this 20th day of April, 1892.

[L. S.]

SEVELLON A. BROWN.

Deposition of Max Heilbronner, secretary of the Alaska Commercial Company.

SEALSKIN RECORD OF ST. GEORGE ISLAND, ALASKA, 1871 TO 1889, INCLUSIVE.

Showing the dates, the rookeries from which the seals were driven, and the number killed from each drove.

1871.

June	4. Near rookery	123	July	10. Northern	1,769
	6. Northeast	98		12. Northern	1,021
	8. Near	69		14. Southwest	491
	9. Southwest	277		15. Northern	1,038
	13. Starrie Arteel	322		18. Northern	1,264
	15. Southwest	301		20. Southwest	484
	17. Northern	434		21. Northern	945
	20. Southwest	172		23. Southwest	542
	22. Northeast	518		25. Northern	792
	24. Starrie Arteel	594		27. Northern	1,054
	26. Southwest	298		28. Southwest	730
	27. Northeast	462		30. Starrie Arteel	1,270
	28. Starrie Arteel	571		31. Northern	893
July	1. Northern	875	After August 1		237
	3. Southwest	303			
	5. Starrie Arteel	518			
	8. Southwest	612			
					19,077

1872.

June	4. Southwest	140	July	6. Southwest	574
	5. Near	26		7. Northeast	718
	8. Northeast	49		9. Starry Arteel and near..	667
	10. Southwest	162		10. Northeast	610
	11. Starry Arteel and near..	256		11. Southwest	1,412
	12. Northeast	61		12. Near	482
	14. Southwest	98		14. Northeast	1,332
	15. Starry Arteel and near..	328		15. Starry Arteel and near..	1,183
	17. Northeast	405		17. Northeast	770
	19. Northern and southwest.	773		18. Starry Arteel and near..	575
	21. Northeast	860		20. Northeast	400
	22. Starry Arteel and near..	1,056		20. Southwest	1,171
	24. Southwest and northeast	890		21. Starry Arteel and near..	920
	25. Starry Arteel and near..	837		23. Northeast	703
	27. Northeast	805		25. Northeast	400
	28. Starry Arteel and near..	960		25. Starry Arteel and near..	552
	29. Southwest	643		27. Southwest	227
July	1. Northeast	981		27. Starry Arteel and near..	285
	2. Starry Arteel and near..	885		27. Northeast	350
	3. Southwest	245			
	4. Northeast	641			25,000
	5. Starry Arteel and near..	574			

1873.

June	4. Near	198	July	5. Starrie Arteel and near.	517
	5. Starrie Arteel	240		8. Southwest	743
	6. Southwest	285		8. Northeast	616
	9. Starrie Arteel and east..	190		9. Starrie Arteel and near.	690
	10. Southwest	275		11. Northeast	974
	12. Northern	300		11. Southwest	602
	13. Southwest	521		12. Starrie Arteel	474
	16. Northern	378		13. Northeast	345
	17. Southwest	174		13. Southwest	337
	19. Northeast	313		16. Starrie Arteel and near.	480
	21. Starrie Arteel and near.	596		17. Northeast	1,097
	21. Southwest	870		18. Southwest	913
	23. Northeast	180		20. Starrie Arteel and near.	1,359
	24. Southwest	499		21. Northeast	1,810
	25. Starrie Arteel and near.	195		23. Starrie Arteel	889
	26. Northeast	241		23. Southwest	513
	27. Southwest	301		24. Northeast	1,710
	29. Starrie Arteel and near.	493		26. Southwest	600
	30. Southwest	310		26. Starrie Arteel and near.	588
	30. Northeast	168		28. Northeast and near	1,528
July	2. Starrie Arteel	332			
	3. Southwest	564			25,000
	4. Northeast	592			

1874.

	Killed for food	128	July	3. Northern	792
June	1. Northern	56		8. Northeast	641
	8. Northern	81		9. Northern	548
	11. East	116		14. Near and northeast	263
	12. Starrie Arteel and north.	154		15. Near and northeast	534
	14. Southwest	250		16. Starrie Arteel	568
	16. East	170		18. Southwest	411
	18. Starrie Arteel and north.	354		19. Northeast	871
	22. Northeast	178		22. Northern	778
	23. Starrie Arteel and near.	378		24. Northern	668
	27. Southwest	575			
	29. Starrie Arteel and near.	686			10,000
July	1. Northeast	800			

1875.

	Killed for food	252	June 28. Northeast	692
June 1.	Starrie Arteel and near.	50	30. Starrie Arteel and near.	1,412
9.	Starrie Arteel and near.	256	July 5. Northeast	717
11.	Northeast	177	7. Starrie Arteel and near.	1,019
14.	Starrie Arteel and near.	307	12. Northeast	1,073
16.	Northeast	358	14. Northern	676
18.	Starrie Arteel and near.	334	17. Northern	177
19.	Southwest	1,294		
23.	Northeast	666		10,000
24.	Starrie Arteel and near.	540		

1876.

	Killed for food during fall and winter	307	June 24. Starrie Arteel and near.	2,067
June 1.	Northern	108	27. Northeast	1,168
8.	Starrie Arteel	372	28. Starrie Arteel and near.	1,023
12.	Northeast	388	July 3. Northeast	1,259
12.	Southwest	599	6. Starrie Arteel and near.	1,027
15.	Starrie Arteel and near.	784	7. Northeast	317
22.	Northeast	581		10,000

1877.

	Killed for food in fall and winter	256	June 23. Northeast	552
June 1.	Northeast	198	26. Starrie Arteel	1,860
11.	Starrie Arteel	702	29. Northeast	1,589
13.	Northeast	578	July 3. Starrie Arteel and near.	1,669
14.	Southwest	1,389	6. Northeast	2,164
18.	Starrie Arteel and northern	1,154	9. Northern	300
20.	Northeast	838	10. Northeast	880
22.	Starrie Arteel and near.	871		15,000

1878.

	Killed for food in fall and winter	405	July 2. Starrie Arteel and near.	930
June 10.	Northeast	385	4. Southwest	1,433
14.	Southwest	1,074	8. Northeast	793
17.	Starrie Arteel and northern	858	9. Starrie Arteel	1,333
19.	Southwest	717	12. Southwest	328
22.	Starrie Arteel and near.	570	13. Southwest	1,025
25.	Northeast	324	15. Northeast	1,892
27.	Southwest	851	17. Northern	1,290
28.	Southwest	517	19. Starrie Arteel	1,577
July 1.	Northeast	644	21. Northeast	1,114
				18,000

1879.

	Killed for food in fall and winter	811	June 25. Southwest	522
June 3.	Near	69	27. Southwest	286
10.	Northeast	445	27. Starrie Arteel	1,176
11.	Southwest	105	30. Northeast	1,584
12.	Starrie Arteel and near.	413	July 3. Starrie Arteel	1,412
13.	Southwest	372	3. Southwest	849
16.	Northeast	445	4. Southwest	351
17.	Southwest	498	5. Northeast	535
19.	Starrie Arteel and northern	755	7. Northern	1,738
20.	Southwest	430	9. Starrie Arteel	1,261
20.	Northeast	473	14. Northeast	1,636
23.	Starrie Arteel and near.	515	15. Northern	863
23.	Southwest	574	16. Southwest	800
25.	Northeast	882		20,000

1880.

	Killed for food in fall and winter	1, 169	June 25. Southwest	833	
June	3. North	81	25. Starrie Arteel	1, 320	
	8. Northeast	333	28. Northeast	1, 764	
	11. Starrie Arteel	562	28. Southwest	843	
	14. Northeast	351	30. Starrie Arteel	808	
	15. Southwest	734	July	1. Northeast	392
	17. Starrie Arteel	557		2. Southwest	961
	17. Zapadnie	254		2. Northern	954
	19. Zapadnie	223		5. Starrie Arteel	515
	19. Northeast	596		6. Northeast	1, 481
	21. Starrie Arteel and near	1, 182		7. Southwest	1, 810
	21. Southwest	618		9. Northeast	948
	23. Northeast	811			20, 000

1881.

		Killed for food in fall and winter	640	June 30.	Starrie Arteel	707	
June	9.	Northern	611	July	1.	Northeast	1,371
	13.	Northern	916		4.	Starrie Arteel and north-ern	1,179
	15.	Southwest	494		6.	Southwest	476
	16.	Starrie Arteel	615		7.	Northeast	1,350
	20.	Starrie Arteel	445		8.	Starrie Arteel	362
	21.	Northeast	575		11.	Northeast	1,300
	21.	Southwest	447		12.	Starrie Arteel	498
	23.	Southwest	227		12.	Southwest	769
	23.	Starrie Arteel	288		14.	Southwest	590
	24.	Northeast	553		13.	Northeast	1,705
	27.	Starrie Arteel	814		15.	Northern	1,627
	28.	Northeast	744				
	28.	Southwest	373				20,000
	30.	Southwest	324				

1882.

Killed for food in fall and winter		534	July	3. Starrie ArteeL and north-east	910
June	6. Northern	26		4. Starrie ArteeL and north-east	1,382
	12. Starrie ArteeL and north-east	508		7. Starrie ArteeL and north-east	1,946
	16. Starrie ArteeL and north-east	887		10. Northeastern	1,368
	19. Starrie ArteeL and north-east	926		11. Starrie ArteeL and near	1,104
	22. Starrie ArteeL and north-east	847		13. Northeastern	1,074
	24. Starrie ArteeL and north-east	1,192		14. Starrie ArteeL	524
	26. Starrie ArteeL and north-east	1,040		15. Northeastern	643
	29. Starrie ArteeL and north-east	1,273		16. Starrie ArteeL and near	1,015
July	1. Starrie ArteeL and north-east	1,063		18. Northeastern	1,083
				19. Northern	510
				20. Northeastern	145
					20,000

1883.

Killed for food in fall and winter		403	June	28. Starrie ArteeL and north-eastern	442
June	12. Starrie ArteeL and north-eastern	139		30. Starrie ArteeL and north-eastern	608
	15. Starrie ArteeL and north-eastern	283	July	2. Starrie ArteeL and north-eastern	340
	19. Starrie ArteeL and north-eastern	61		4. Starrie ArteeL and north-eastern	287
	22. Starrie ArteeL and north-eastern	379		7. Starrie ArteeL and north-eastern	645
	25. Starrie ArteeL and north-eastern	684		9. Southwest	1,333

1883—Continued.

July 10 Southwest	507	July 20. Southwest	1, 150
10. Northeast	306	23. Starrie Arteel	766
11. Starrie Arteel	260	25. Northeast	77
12. Northeast	546	27. Northern	606
13. Starrie Arteel	321	30. Starrie Arteel and north-	
16. Northeast	775	east	501
16. Southwest	1, 015	Aug. 6 Starrie Arteel and north-	
17. Starrie Arteel	130	east	379
18. Northeast	467	13. Northeast	94
18. Southwest	1, 216		
20. Northeast	280		15, 000

1884.

Killed for food in fall and winter.	380	July 7. Southwest	87
June 3. Northeast	111	9. Starrie Arteel and north-	
10. Southwest	1, 222	east	1, 260
12. Starrie Arteel	690	12. Southwest	971
16. Southwest	581	14. Northeast	298
18. Starrie Arteel and north-		15. Northern	465
east	552	16. Southwest	726
21. Southwest	582	17. Northeast	990
23. Starrie Arteel	598	18. Starrie Arteel	506
26. Southwest	556	23. Southwest	795
28. Starrie Arteel and north-		23. Starrie Arteel	744
east	486	25. Northeast	595
July 1. Southwest	298	26. Southwest	572
3. Starrie Arteel and north-		30. Starrie Arteel	640
east	71	Aug. 4. Northeast	224
			15, 000

1885.

Killed for food in fall and winter.	196	July 1. Starrie Arteel and north-	
June 1. Northeast	118	east	2, 287
10. Starrie Arteel and north-		6. Southwest	789
east	780	10. Starrie Arteel and north-	
15. Southwest	775	east	2, 156
17. Starrie Arteel	802	13. Southwest	1, 011
18. Northeast	825	16. Starrie Arteel and north-	
22. Southwest	414	east	2, 218
27. Starrie Arteel and north-		20. Southwest	483
east	1, 775		
29. Southwest	401		15, 000

1886.

Killed for food in fall and winter.	370	July 5. Southwest	620
June 9. Starrie Arteel and north-		5. Starrie Arteel	499
east	1, 428	6. Northeast	648
14. Southwest	831	9. Starrie Arteel	865
16. Starrie Arteel and north-		12. Southwest	745
east	1, 436	13. Northeast	888
21. Starrie Arteel and north-		15. Starrie Arteel and north-	
east	742	east	707
21. Southwest	843	19. Southwest	663
23. Northeast	343	20. Starrie Arteel and north-	
24. Southwest	306	east	1, 371
28. Southwest	288	23. Northeast	294
29. Starrie Arteel	632		
July 1. Northeast	481		15, 000

1887.

Killed for food in fall and winter.	282	July 6. Starrie Arteel and north-	
June 8. Northeast.....	383	ern.....	1, 321
13. Northeast.....	465	7. Northeast.....	421
15. Southwest.....	427	10. Southwest.....	751
20. Southwest.....	261	11. Starrie Arteel and north-	
20. Starrie Arteel.....	974	ern.....	1, 296
24. Northeast.....	533	13. Northeast.....	1, 509
27. Southwest.....	599	18. Southwest.....	1, 077
27. Starrie Arteel and north-		18. Starrie Arteel.....	894
east.....	816	20. Northeast.....	1, 130
29. Northeast.....	409	22. Starrie Arteel and north-	
July 1. Starrie Arteel.....	100	ern.....	489
4. Southwest.....	883		15, 000

1888.

Killed for food in fall and winter.	418	July 10. Starrie Arteel.....	1, 169
June 6. Northeast.....	121	11. Northeast.....	810
11. Southwest.....	272	13. Starrie Arteel and north-	
11. Starrie Arteel and north-		ern.....	508
ern.....	455	16. Southwest.....	694
15. Starrie Arteel and north-		17. Starrie Arteel and north-	
ern.....	227	ern.....	1, 090
18. Southwest.....	427	19. Southwest.....	366
18. Starrie Arteel.....	324	20. Starrie Arteel and north-	
22. Starrie Arteel.....	764	ern.....	550
25. Southwest.....	908	23. Southwest.....	179
26. Starrie Arteel and north-		24. Starrie Arteel and north-	
ern.....	894	ern.....	405
27. Northeast.....	438	25. Southwest.....	159
29. Starrie Arteel.....	341	26. Starrie Arteel and north-	
July 2. Southwest.....	341	ern.....	520
3. Northeast.....	530	27. Southwest.....	142
4. Starrie Arteel.....	503	27. Starrie Arteel.....	407
6. Northeast.....	648		15, 000
9. Southwest.....	389		

1889.

Killed for food in fall and winter.	1, 293	July 15. Southwest.....	371
June 4. Northeast.....	156	16. Starrie Arteel and north-	
10. Southwest.....	275	ern.....	1, 028
17. Southwest.....	244	18. Southwest.....	439
18. Starrie Arteel.....	773	19. Starrie Arteel and north-	
21. Northeast.....	176	ern.....	1, 140
22. Starrie Arteel and north-		22. Southwest.....	500
ern.....	284	22. Starrie Arteel and north-	
20. Southwest.....	596	ern.....	628
25. Northeast.....	496	24. Southwest.....	279
27. Southwest.....	223	25. Starrie Arteel and north-	
29. Starrie Arteel.....	429	ern.....	1, 450
30. Southwest.....	167	27. Starrie Arteel and north-	
July 2. Starrie Arteel and north-		ern.....	942
ern.....	275	27. Southwest.....	568
4. Starrie Arteel and north-		29. Starrie Arteel and north-	
ern.....	418	ern.....	613
7. Southwest.....	229		15, 000
9. Starrie Arteel.....	269		
11. Southwest.....	192		
13. Starrie Arteel and north-			
ern.....	667		

Recapitulation of seals killed for their skins on the St. George Island, Alaska, from 1871 to 1889, inclusive.

1871.....	19, 077	1876.....	10, 000	1881.....	20, 000	1886.....	15, 000
1872.....	25, 000	1877.....	15, 000	1882.....	20, 000	1887.....	15, 000
1873.....	25, 000	1878.....	18, 000	1883.....	15, 000	1888.....	15, 000
1874.....	10, 000	1879.....	20, 000	1884.....	15, 000	1889.....	15, 000
1875.....	10, 000	1880.....	20, 000	1885.....	15, 000		

I, Max Heilbronner, secretary of the Alaska Commercial Company, of San Francisco, do solemnly swear that the foregoing "sealskin record of St. George Island, Alaska, 1871 to 1889, inclusive," is formulated and compiled from the books of said company kept on said island, now in my custody, and is correct and true according to my best knowledge and belief.

MAX HEILBRONNER,
Secretary Alaska Commercial Company.

Subscribed and sworn to before me this 11th day of May, A. D. 1892.
[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Louis Kimmel, assistant Treasury agent on St. George Island.

HABITS.

DISTRICT OF COLUMBIA,

City of Washington, ss:

Louis Kimmel, being duly sworn, deposes and says: I am a resident of La Fayette, Indiana, and am 63 years of age. During the years 1882 and 1883 was the assistant Treasury Agent located on St. George Island of the Pribilof Group. I arrived on the island May 31, 1882, and remained there continuously until the latter part of July, 1883.

Experience.

While on the island I studied the habits of the fur seals in order that I might be able to perform my official duty. The bulls (males 6 years old and upwards) began to come to the island the first part of May. The cows did not come till the latter part of the month and the first part of June. The bachelors, or young males, began to arrive about the same time as the cows. The bachelors try to land on the breeding rookeries occupied by the bulls, but are driven off by the older males and are compelled to herd together by themselves separately from the bulls and cows. A male seal is over 5 years of age before he is able to maintain himself on the breeding rookeries against the attacks of his fellows. The breeding rookeries are never disturbed in any way by the employees on the island and the most stringent rules are enforced against the use of firearms, allowing dogs upon the islands, or disturbing the seals in any manner. The bachelors are the seals which are killed by the lessees of the islands, the killable age being from two to five years; all seals which are not males or which are not of the correct age are separated from those to be killed and allowed to return to the water. Under no circumstances is it allowable to kill a female of any age. The killable seals, after being separated from the remainder of the herd, are driven by the natives to the killing grounds. After every "drive" that took place while I was on the island I went back over the ground along which the seals had been driven to see if any seals had been killed by overdriving. The entire number of seals killed in all these "drives" did not exceed one hundred, and the majority of them were killed by the large seals crushing the smaller ones to death. In every case of a seal being killed on the "drive," I, as Government agent, imposed a fine in order that they might be more careful in the future.

Arrival of bulls.
cows, bachelors.

Maturity of males.

Management.

Killing.

Driving.

Overdriving.

A cow never suckles any but her own pup. When a strange pup approaches a cow she will drive it away from her; and out of thousands of pups huddled together she will single her own. It is my opinion that if a mother is killed her offspring dies of starvation. In performing my official duty I frequently visited the breeding rookeries, and during my entire stay on the island I never saw more than 400 dead pups on all the rookeries. A new-born pup seal is unable to swim and is afraid of the water. I have seen a cow seal push her pup from a rock into the water where it floundered about in a helpless manner until the mother would go in, take it in her mouth as a cat carries kittens, and bring it again ashore, only to again push it off the rock into the water. My observation has been that a pup is generally about two months old before it can swim. It is my opinion that a pup born in the water would drown in a very few minutes.

A bull never leaves the breeding rookery during the entire breeding season, which is a period of from two to three months. Soon after a cow brings forth her young she goes into the water to get food. I know from actual observation that they go at least 20 miles from the islands, but how much further I am unable to state.

LOUIS KIMMEL.

Subscribed and sworn to before me this 25th day of March, 1892.

[L. S.]

SEVELLON A. BROWN,

Notary Public in and for the District of Columbia, U. S. A.

Deposition of Thomas F. Ryan, assistant Treasury agent on St. George Island.

HABITS, MANAGEMENT, PELAGIC SEALING.

DISTRICT OF COLUMBIA,
City of Washington, ss:

Thomas F. Ryan, being duly sworn, deposes and says: I am a resident of Indianapolis, Indiana, and am 51 years old. During the years 1885 and 1886 I was Assistant Treasury Agent, residing on St. George Island, one of the Pribilof Islands. I arrived there about the 1st of May, 1885, and remained there until August 9, 1886. In order to perform my duty as agent I made a careful study of seal life on the island, and examined as far as I was able into the habits of the fur seal. The bulls generally begin to arrive on the island during the first part of the month of May. The cows begin to appear about June 1, and the young males, or bachelor seals, about the same time. The seals which are "driven" and killed are bachelors between the age of 2 years and 5 years. No females are allowed to be driven or killed. The breeding rookeries are never disturbed in any way. The rule that "the use of firearms is forbidden between May 1 and December 1, except as permitted by the Government officer," was enforced while I was on the island. No dogs are ever allowed upon the islands. The cow gives birth to her pup soon after arriving on the breeding rookeries, and I think a

cow never gives suck to any pup save her own; I judge this from my own observation. A pup does not swim when first born, and is generally two months old before it goes into the water. I have seen the stomachs of several seals after they were killed and they contained only pieces of fish, which seemed to be their sole food. I do not know whether they eat kelp or not.

Females nurse only their own pups.

Pups swimming.

The bulls do not eat at all while on the breeding rookeries. The cows, however, eat and sometimes go 60 miles to get food, and perhaps farther. Old experienced poachers informed me that they remained that distance from the islands to capture the seals when they came to feed.

Bulls fasting. Females feeding.

I estimate that

the seals killed by pelagic hunters are at least 90 per cent females; this estimate is based on the great number of motherless pups I have observed on the rookeries, and also on statements made to me by many engaged in pelagic sealing whom I met and conversed with at Unalaska.

Ninety per cent taken females.

There was but one successful raid on the rookeries while I was upon the island, and but 125 seals were killed. I do not consider that raids on the rookeries have anything to do with the decrease of the number of seals.

Raids on islands.

I am further satisfied after my two years' experience that the driving of male seals to the killing grounds by the natives could be of no possible injury to seal life on the islands. I think the seals ought to be protected both in Bering Sea and the North Pacific Ocean, and pelagic sealing entirely prohibited in those waters, or else a close season established, beginning March 1 and ending either September 1 or October 1. In case the seals are not protected in this manner, I believe that they will be exterminated within five years.

Driving not injurious.

could be of no

Protection necessary.

Prohibition, or close season.

T. F. RYAN.

Subscribed and sworn to before me this 26th day of March, 1892.

[L. S.]

SEVELLON A. BROWN,

Notary Public in and for the District of Columbia, U. S. A.

Deposition of W. B. Taylor, assistant Treasury agent on St. George Island.

MANAGEMENT; HABITS; PELAGIC SEALING.

DISTRICT OF COLUMBIA,

City of Washington, ss:

W. B. Taylor, of Omaha, Nebr., being duly sworn, deposes and says: I am 41 years of age, Secretary and Treasurer of the Globe Loan and Trust Company, of Omaha, Nebraska, and am not and never have been in any way connected with any company engaged in the seal-skin industry. In the year 1881 I was Assistant Treasury Agent for the seal islands. I arrived on the islands in the latter part of May of that year, and after a week's stay on St. Paul Island was detailed to St. George, remaining there until the latter part of August. Since then I have not been on the islands. While on St. George I was on the killing grounds every day during the season, and visited the rookeries almost daily, both in connection with my official duties and for the purpose

Experience.

of studying seal life. From carefully observing the grounds formerly occupied by breeding seals, as pointed out to me by the natives, and from statements made me by those on the island, I believe there were more seals on the islands in 1881 than in any year previous to that time. I believe that the increase and decrease of seal life can be certainly told from accurate measurements of the breeding grounds, because the seals herd together as closely as possible, whether there are few or many of them. But the number of seals can not be estimated with even approximate accuracy, because of the roughness and unevenness of the ground, and

Seals numerous in 1881.

Females feeding.

because during the height of the season a majority of the females (called cows) are out at sea feeding, being often obliged to go 30 or more miles from the islands for this purpose, and not returning till late at night. I think the number of seals heretofore estimated has been largely exaggerated, and no dependence can be placed on any estimate as to their numbers.

During the year I was on the Island of St. George I did not see to exceed twenty-five dead pups on the rookeries, and the bodies of these were not emaciated, but had evidently been killed by the old bulls climbing over them in their combats. From my observations I am convinced a pup must be 6 or 8 weeks old before it can swim, and that a female generally teaches her own pup the use of his flippers. Birth in the water would mean immediate death to the pup, both because of the fact last stated and from the further fact that for a day or two after birth a pup is entirely helpless. In my judgment, then, a seal pup for the first few weeks of its life is a land quadruped and in no sense an amphibian. I believe that a seal is naturally a land animal, as all copulation, birth, and nursing takes place on shore, and the only reason I think the seals seek the water is because they are compelled so to do in order to obtain food. This is verified from the fact that the seals remain on land as long as possible, until the need of food and severity of the weather compel them to take to the sea. A female when she returns from the feeding grounds will always select her own pup from all those on the rookeries, and will give suck to no other. It is therefore my opinion that if a mother seal is killed the pup will certainly die of starvation.

Few dead pups in 1881.

Pups learning to swim.

Seals land quadrupeds.

Seals seek water only for food.

Females nurse only their own pups.

Driving.

Breeding protected.

Females not killed on islands.

No overdriving.

I made a very particular examination and study of the methods employed by the natives in driving and killing the young males, or bachelors, and in my opinion these methods are the very best that could be adopted, and I can conceive of no other way which could be employed and preserve seal life so effectually. In starting a drive the bachelors are driven from the hauling grounds, which are separated from the breeding grounds. Great care was always taken not to disturb the breeders; no one was ever allowed to go on the breeding grounds during the rutting season, all observations as to the habits being made from overhanging cliffs or some elevation in the vicinity of the harems. I never saw but one female killed out of the 20,000 taken on St. George Island in 1881, and that was accidental. A drive is always made between 2 and 6 o'clock in the morning, when the weather is cool and there is less liability of overheating the seals. Seals are driven as slowly as is possible and still keep them in motion. I do not think that there were fifty

seals killed during the season by overheating and smothering, and in all cases the skins of these were taken and counted with the other skins transported to the salt houses. I never saw or heard of the generative organs of a male seal being injured by redriving, and it seems to me to be utterly absurd that anyone could think that an animal with such wonderful vitality as is possessed by the male seal could be injured or his reproductive powers impaired by driving or redriving. If such a thing should occur it would be at once noticeable, for the impotent bull would certainly haul up with the bachelors, having no inclination and vigor to maintain himself on the rookeries.

It is my opinion that a bull is able to serve from three to five cows a day, and certainly over a hundred in a season. I have seen over forty cows at one time in a harem, and the bull who possessed this harem was continually striving to obtain more cows. There was but one raid on the rookeries while I was there, and that took place on Otter Island, about sixty skins being taken. After that raid the Government kept a man on Otter Island during the entire summer to protect it from marauders. Raids on the islands never affected seal life to any extent. Since my residence on the Pribilof Islands I have kept a very careful watch of the progress of events there, and have interviewed a great many connected with the seal industry. I am of the conviction that the reported decrease in seal life on these islands can be attributed to no other cause save pelagic sealing. While I was located at St. George Island in 1881 pelagic sealing was then and previous to that time had been of very little consequence, having very slight effect upon seal life. Not more than four or five vessels were engaged in pelagic sealing in 1881 in the waters of Bering Sea, and prior to that time a still fewer number were so engaged. But since 1881 this industry has grown yearly until now about a hundred vessels are destroying the seals in great numbers, and, as I am informed and believe, the great majority of those killed are females. Then too, large numbers are killed in this way which are never recovered or reported. It is, therefore, in my opinion, necessary that the seals should be protected, and all killing in the water prohibited in all waters which the seal herd frequents, and especially in Bering Sea and while the herd are en route to and from the islands through the Aleutian passes.

Propagating power of bulls.

Harems.

Raids on islands.

Decrease due to pelagic sealing.

Number of pelagic sealers.

Mostly females taken.

Waste of life.

Protection necessary.

Especially in Bering Sea and Aleutian passes.

W. B. TAYLOR.

Subscribed and sworn to before me, a notary public in and for the District of Columbia, U. S. A., this 26th day of April, 1892.

[L. S.]

SEVELLON A. BROWN.

Deposition of George Wardman, assistant Treasury agent on St. George Island.

HABITS; MANAGEMENT; PELAGIC SEALING.

DISTRICT OF COLUMBIA,

City of Washington, ss:

George Wardman, of Pittsburg, Pennsylvania, being duly sworn, deposes and says: I am 50 years of age, and editor of the Pittsburg Press. In 1879 as a journalist I made a trip to Alaska on the United States revenue steamer *Rush*, during her summer cruise. On that trip I stopped at

many points along the northwest coast, the Alaskan coast, and the Aleutian chain, and also visited the Pribilof Islands and St. Michael, going as far north as Bering Straits. On April

Experience.

4, 1881, I was appointed Assistant Special Treasury Agent for the Seal Islands, and immediately after such appointment proceeded to San Francisco and sailed for the islands, arriving there in the latter part of May. I was then detailed by Colonel Otis, Special Treasury Agent for the Seal Islands, to the Island of St. George, and until May 29, 1885, I remained in charge of that Island. During that time I returned but twice to the United States. I made careful examination of the rookeries each year, and after the first year I compared my yearly observations, so that I might arrive at some conclusion as to whether it was possible and expedient to increase our portion of the quota of skins to be taken on St. George Island without injuriously affecting seal life there. I am satisfied from my observations that the breeding grounds on St. George

Increase, 1881-'84.

covered greater areas in 1884 than in 1881, and that seal life materially increased between those dates; and this fact was verified by all the natives on the island. In fact there was no disagreement by anyone located on the islands as to that point.

Plenty of males.

I am further satisfied that during this time there was always a sufficient number of males to fertilize the cows on the rookeries; otherwise there could have been no increase in the breeding grounds.

While I was on the island I never saw more than twenty-five dead pups on the rookeries during any one season. I have seen occasionally a dead one among the bowlders along the shore, which had probably been killed by the surf; but these dead pups were in no instance emaciated.

Females nurse only their own pups.

A cow will not suckle any pup but her own. Of this I am convinced, because I have seen cows drive off other pups when they approached them, and wait until they appeared to recognize their own. I further think that if a mother were killed her pup would starve to death, for she suckles the pup during the time it remains on the island, and it has no other means of subsistence.

Females feeding.

During the rutting season the bulls generally remain upon land, while the females are constantly going to and from the water, feeding and bathing, and teaching their pups to swim, as I believe, which the pups are unable to do for the first six weeks of their existence. In fact, a pup is afraid of the water during these six weeks and needs a good deal of coaxing at first to get him to go into it. Young pups can not be driven into the water by men, and when I tried to drive them in before they had learned to swim they would invariably run back from the water.

Pups learning to swim.

While located on St. George I became thoroughly acquainted with the methods of driving, handling, and killing the bachelor seals by the natives. I believe those methods are the very best that could be adopted for the preservation of the rookeries and conservation of seal life.

Management.

A female was never killed while I was on St. George, except by accident. Seals were rarely killed by overdriving; but when such an accident occurred the skin was taken off and included in the quota. Often after the drive I went over the ground where the seals had been driven and counted those left on the road. They were very few in number and did not affect seal life in general on the island. The only injury I ever noticed from re-driving was that the hind flippers of yearlings which had been driven several times would be slightly

No females killed on islands.

No overdriving.

abraded. They were footsore, you might say, but there was no injury to the reproductive organs of the males driven. I am satisfied the natives would have noticed it and spoken to the Government agents about it if we had overlooked the fact. My attention was never called to anything of this kind, and in all my experience I never heard of a male being so injured. Even if a male were driven once a day for ten successive days, I am certain that such driving would not impair his future usefulness as a progenitor of his species.

I am of the opinion that all killing of seals in the water should be prevented, both in Bering Sea and the North Pacific, because the seals thus killed are slaughtered without discrimination as to age or sex. In case such killing be prevented in the water, such regulations can be enforced upon the islands that the Pribilof seal herd will yield a supply of skins for an indefinite period without reducing the size of the herd. If, however, the killing of seals in the water is not prevented, all calculations looking toward the preservation of them on the islands by the Government and the lessees will be of no avail, and the Alaska seal will be exterminated. As seals are found in large numbers over 100 miles from the islands during the entire summer, a zone 30 or 40 miles about the islands in which open-sea sealing were prevented, if such could be done, would be of comparatively little protection to seal life.

Protection necessary.

Indiscriminate killing.

Zone useless.

GEO. WARDMAN.

Subscribed and sworn to before me, a notary public in and for the District of Columbia, this 15th day of April, 1892.

CHAS. L. HUGHES,
Notary Public.

Deposition of Daniel Webster, agent of lessees on St. George Island.

MANAGEMENT AND HABITS.

ST. GEORGE ISLAND, Pribilof Group, ALASKA, U. S. A., ss:

Daniel Webster, being duly sworn, deposes and says: I am 60 years of age, and am a resident of Oakland, Cal.; my occupation is that of local agent for the North American Commercial Company, and at present I am stationed on St. George Island, of the Pribilof Group, Alaska. I have been in Alaskan waters every year but two since I was fourteen years of age. I first went to Behring Sea in 1845 on a whaling voyage, and annually visited those waters in that pursuit until 1868, at which time the purchase and transfer of Alaska was made to the United States; since that time I have been engaged in the taking of fur seals for their skins. In 1870 I entered the employ of the lessees of the Pribilof Islands and have been so engaged ever since, and for the last thirteen years have been the company's local agent on St. George Island, and during the sealing season have, a part of the time, gone to St. Paul Island and took charge of the killing at Northeast Point, which is known to be the largest fur seal rookery in the world. For ten years prior to 1878 I resided most of the time at Northeast Point, having landed and taken seals there in 1868. I have had twenty-four years' experience in the fur-seal industry as it exists in the waters of the North Pacific and Behring Sea, and have made a very careful study of the habits and conditions of this useful

Experience.

animal. During this period it has been my duty as a trusted employé of the lessees to observe and report, each year, the condition of the rookeries. My instructions were explicit and emphatic to never permit, under any circumstances, any practices to obtain that would result in injury to the herds. These instructions have been faithfully carried out by myself and other employés of the lessees of the Islands, and the laws and regulations governing the perpetuation of seal life have been rigidly enforced by all the Government Agents in charge of the Islands.

In my twenty-three years' experience as a whaler in Behring Sea and the North Pacific, during which time I visited every part of the coast surrounding these waters, and my subsequent twenty-four years' experience on the seal islands in Berhing and Okhotsk seas, I have never known or heard of any place where the Alaskan fur seals breed except on the Pribiloff Group in Bering Sea. These islands are isolated and seem to possess the necessary climatic conditions to make them the favorite breeding grounds of the Alaskan fur seals, and it is here they congregate during the summer months of each year to bring forth and rear their young. Leaving the islands late in the fall or in early winter, on account of the inclemency of the weather they journey southward through the passes of the Aleutian Archipelago to the coast of California, Oregon, and Washington, and, gradually working their way back to Bering Sea, they again come up on the rookeries soon after the ice disappears from the shores of the islands; and my observation leads me to believe that they select, as near as possible, the places they occupied the year before. The young seals are born on the breeding rookeries in June and July. The head constitutes the greater part of this animal at this time, and they are clumsy and awkward in all their movements, and if swept into the water by accident or otherwise would perish from inability to swim—a fact that I have often observed, and one which is well known to all who have paid any attention to the subject. Practically they remain in this helpless condition, though taking on fat rapidly, until they are from 6 to 7 weeks old, when they commence to go into the shallow water, and, after repeated trials, learn to swim; but even then they spend most of their time on land until they leave the islands late in November. During the first few weeks after their birth they are not amphibious, and land is a necessity to their existence. The mother seals go out to sea to feed soon after giving birth to their young, and return at intervals of from a few hours to several days to suckle and nourish their young.

The mother seal readily distinguishes her own offspring from that of others, nor will she permit the young of any other seal to suckle her. I have noticed in the killing of young seals (pups) for food, in November, that their stomachs were full of milk, although apparently the mothers had not been on the islands for several days previous. I have observed that the male seals taken in the forepart of the season, or within a few days after their arrival at the islands, are fat and their stomachs contain quantities of undigested fish (mostly cod), while the stomachs of those killed in the latter part of the season are empty; and they diminish in flesh until they leave the islands late in the season. I am of the opinion that while the female often goes long distances to feed while giving nourishment to her young, the male seals of two years old and over seldom,

Only mothers leave islands for food.



LOOKING DOWN ON THE EAST END OF NORTH ROOKERY, ST. GEORGE ISLAND.

if ever, leave the islands for that purpose until they start on their migration southward. When the seals are on the breeding grounds they are not easily frightened unless they are too nearly approached, and even then they will go but a short distance if the cause of their fright becomes stationary.

It is impossible to estimate with any sort of accuracy the number of seals on the Pribilof Islands, because of the seals being constantly in motion, and because the breeding grounds are so covered with broken rocks of all sizes that the density varies. I think all estimates heretofore made are unreliable, and in the case of Elliot and others who have endeavored to make a census of seal life, the numbers are, in my opinion, exaggerated. Measurements of the breeding grounds, however, show an increase or decrease of the number of seals, because the harems are always crowded together as closely as the nature of the ground and temper of the old bulls will permit. My observation has been that there was an expansion of the rookeries from 1870 up to at least 1879, which fact I attribute to the careful management of the Islands by the United States Government. In the year 1880 I thought I began to notice a falling off from the year previous of the number of seals on Northeast Point rookery, but this decrease was so very slight that probably it would not have been observed by one less familiar with seal life and its conditions than I; but I could not discover or learn that it showed itself on any of the other rookeries. In 1884 and 1885 I noticed a decrease, and it became so marked in 1886 that everyone on the islands saw it. This marked decrease in 1886 showed itself on all the rookeries on both islands.

Impossible to estimate number of seals on islands.

Expansion of rookeries from 1870 to 1879.

Decrease noticed in 1880.

And in 1884 and 1885.

Until 1887 or 1888, however, the decrease was not felt in obtaining skins, at which time the standard was lowered from 6 and 7 pound skins to 5 and 4½ pounds. The hauling grounds of Northeast Point kept up the standard longer than the other rookeries, because, as I believe, the latter rookeries had felt the drain of open-sea sealing during 1885 and 1886 more than Northeast Point, the cows from the other rookeries having gone to the southward to feed, where the majority of the sealing schooners were engaged in taking seal. There was never while I have been upon the Islands any scarcity of vigorous bulls, there always being a sufficient number to fertilize all the cows coming to the Islands. It was always borne in mind by those on the Islands that a sufficient number of males must be preserved for breeding purposes, and this accounts partly for the lowering of the standard weight of skins in 1888. The season of 1891 showed that male seals had certainly been in sufficient number the year before, because the pups on the rookeries were as many as should be for the number of cows landing, the ratio being the same as in former years. Then, too, there was a surplus of vigorous bulls in 1891 who could obtain no cows. Every care is taken in driving the seals from the

Reduction of standard of skins taken.

No lack of bulls.

Driving.

hauling to the killing grounds, and, during the regular killing season of June and July, there are no females driven because, at this season, they are on the breeding rookeries and do not intermingle with the young males. If occasionally one does happen to be in the drive great care is taken not to injure her; the law prohibiting the killing of the female seal is well understood by the natives, and they are thoroughly in sympathy with it. Even were I to request them to kill a female seal they would

refuse to do it, and would immediately report me to the Government Agent. I have known an occasional one to be killed by accident during the food drives late in the season when the males and females intermingle on the hauling grounds, but the clubber was always severely rebuked by the chief for his carelessness as well as by the Government and Company Officers.

My observation is that the number of female seals killed on the Islands from all causes is too insignificantly small to be noticed. The

Longest of the drives. longest drives made on St. George Island are from "Starry Ateel" and "Great Eastern" rookeries, and they are less than 3 miles long. Drives from these rookeries require from four to six hours, according to the weather. At Zapadni rookery, on St. George, the drive to the killing grounds is less than a mile, the seals are now being killed there instead of being driven across the Island as they were prior to 1878, when it took three days to make the journey. There is now a salt house at Zapadni, at which the skins are salted as soon as taken. The killing grounds on both Islands are all situated within a very short distance from the shore, and seals not suitable to be killed, or that are turned out for any cause, immediately go into the water, and, after sporting around for an hour or two, they return to the hauling grounds, and to all appearances they are as unconcerned and careless of the presence of man as they were before they were driven to the killing grounds. I have often observed that the seals

Tameness of the seals.

when on the Islands do not take fright easily at the presence of man; and the natives go among them with impunity. They will go into a herd of seals on the hauling grounds and quietly separate them into as many divisions and subdivisions as is necessary before driving them to the killing grounds. At the killing grounds they are again divided into bunches or "pods" of twenty or thirty each more readily than the same number of domestic animals could be handled under the same circumstances.

The bulls on the rookeries will not only stand their ground against the approach of man, but will become the aggressors if disturbed. Pups are tame and very playful when young, and, previous to 1891, when it was the practice to kill three or four thousand for natives' food in November, thousands of them were picked up and handled to determine the sex, for only the males were allowed to be killed. Hair seal and sea lions haul out on the Islands and are seldom disturbed, yet they will plunge into the water at once should they discover anyone upon their rookeries, but it is not so with the fur-seal. They seem at home on the rookeries and hauling grounds, and they show a degree of domestication seldom found among similar animals. At Northeast

Reduction of length of drives.

Point rookery on St. Paul Island the longest drive is 2 miles. In former times the Russians used to drive from this rookery to St. Paul village, a distance of $12\frac{1}{2}$ miles. Seals turned away from the killing grounds return to the rookery from which they were driven, therefore a male seal is not redriven day after day, because a hauling ground is always given several days rest before being

No injury from redriving.

driven from again. I never saw or heard of the generative organs of a male seal being injured by driving or by redriving, and if such a thing had taken place, even in exceptional cases, the natives would have noticed and reported it, which they never did. I have seen a seal's flippers made sore by driving, but I never saw one that was seriously injured by driving. I do not believe that a male seal's powers of reproduction were ever affected by driving or redriving.

The bulls maintain their positions on the rookeries from the time they arrive till the cows come by most bloody battles, and after the cows commence arriving they are continually contending for their possessions. During these conflicts they are often seriously wounded, and their exertions are far more violent than any effort made by a young male during a "drive." Then, too, the male seal must have great vitality to remain on the rookeries for three months without eating or drinking and with very little sleep. In spite of this drain on his vital force he is able to fertilize all the cows which he can get possession of, and a barren cow is a rarity. I believe that a bull can serve one hundred or more cows, and it is an absurdity to think that

Vigor of bulls.

an animal possessing such remarkable vigor could be made impotent by being driven or redriven when a "Bachelor." An impotent bull would have neither the inclination or vigor to maintain himself on the rookeries against the fierce and vigorous possessors of harems. The only bulls hauling up away from the breeding rookeries are those whose extreme old age and long service have made them impotent and useless, and I have never seen or heard tell of anything that would make an exception to this rule. The methods

Killing.

employed in taking the skins are, in my opinion, the best that can be adopted. The killing grounds are situated as near the rookeries and hauling grounds as is possible without having the breeders or bachelors disturbed by the smell of blood or putrefaction, and most stringent regulations have always been enforced to prevent disturbing or frightening the breeding seals.

I am convinced that if open-sea sealing had never been indulged in to the extent it has since 1885 or perhaps a year or two

Decrease caused only by pelagic sealing.

earlier, 100,000 male skins could have been taken annually forever from the Pribilof Islands without decreasing the seal herd below its normal size and condition. The cause of the decrease which has taken place can be accounted for only by open-sea sealing; for, until that means of destruction to seal life grew to be of such proportions as to alarm those interested in the seals, the seal herd increased, and since that time the decrease of the number of seals has been proportionate to the increase in the number of those engaged in open-sea sealing. The majority of seals killed in the water are females, and all the females killed in Behring Sea are mothers who have left their pups on the rookeries and gone some distance from the Islands in search of food. The death of every such mother seal at sea means the death of her pup on shore, because it is absolutely and entirely dependent on her for its daily sustenance. I

Seals not subject to disease.

never heard of any disease among the seal herd, nor of an epidemic of any sort or at any time in the history of the Islands. I do not remember the precise date of the first successful raid upon the rookeries by sealing schooners, but I

Raids.

do know that for the past ten years there have been many such raids attempted, and a few of them successfully carried out, and that as the number of schooners increased around the Islands, the attempted raids increased in proportion, and it has been deemed necessary to keep armed guards near the rookeries to repel such attacks. Although a few of the raids were successful, and a few hundred seals killed and carried off, from time to time during the past ten years, the aggregate of all the seals thus destroyed is too small to be mentioned when considering the cause of the sudden decline of seal life on the Pribilof Islands.

Twenty-four years of my life have been devoted to the sealing in-

dustry in all of its details as it is pursued upon the Pribilof Islands, and it is but natural that I should become deeply interested in the subject

Growth up to 1880. of seal life. My experience has been practical rather than theoretical. I have seen the herds grow and multiply under careful management until their numbers were millions, as

Decrease from 1884 to 1891. was the case in 1880. From 1884 to 1891 I saw their numbers decline, under the same careful management, until in the latter year there was not more than one-fourth of their numbers coming to the Islands. In my judgment there

Decrease caused by pelagic sealing alone. is but one cause for that decline and the present condition of the rookeries, and that is the shotgun and

rifle of the pelagic hunter, and it is my opinion that if the lessees had not taken a seal on the Islands for the last ten years we would still find the breeding grounds in about the same condition as they are to-day, so destructive to seal life are the methods adopted by

Waste of life. these hunters. I believe the number they secure is small as compared with the number they destroy. Were it males only that they killed the damage would be temporary, but it is mostly females that they kill in the open waters, and it is plain to anyone familiar with this animal that extermination must soon follow unless some restrictive measures are adopted without delay.

N. B.—The foregoing is substantially the same statement that I made to the commissioners who visited the islands in 1891. Statement to the commissioners in 1891.

DANIEL WEBSTER.

Subscribed and sworn to before me, an officer empowered to administer oaths under section 1976, Revised Statutes of the United States, on this the 11th day of June, 1892, at St. George Island, Alaska.

WM. H. WILLIAMS,

Treasury Agent in charge of Seal Islands.

TESTIMONY RELATING TO SEIZURES IN BERING SEA.

Deposition of Charles A. Abbey, captain, U. S. R. M.

PELAGIC SEALING.

DISTRICT OF COLUMBIA,

City of Washington, ss:

Charles A. Abbey, being duly sworn, deposes and says: I am 51 years of age, and am captain in the Revenue Marine of the United States, and have been in the service for nearly twenty-eight years. From June, 1886, until the latter part of August, 1886, I was in charge of the revenue steamer *Corwin*, cruising in Bering Sea for the purpose of protecting seal life, the fur-seal industry, and the Government interests in Alaska generally. On June 10, 1886, I left the Columbia River, proceeding to Unalaska, and thence on the 27th day of June into Bering Sea, my destination being the Pribilof, or Seal, Islands. Soon after leaving Unalaska we began to see seals in the water about the steamer. Within seven hours after leaving Unalaska I sighted the schooner *Sierra*, of and from San Francisco, with her boats out sealing, in latitude $54^{\circ} 20'$ north, longitude $166^{\circ} 35'$ west. Before I could overhaul her her boats were called in and all evidences of sealing were out of sight. There were seal skins in her hold, but as there was no evidence that any had been taken in Bering Sea, I disarmed her, she being without a permit for use of arms and ammunition, and let her go. The next morning sighted the schooner *City of San Diego*, of San Francisco, in latitude $55^{\circ} 52'$ north, longitude $168^{\circ} 25'$ west. As she also had no permit for arms and ammunition, I disarmed her.

I then called at the Pribilof Islands and cruised about them for some days without seeing any vessels of any kind. On the 3d day of July cruised northward, returning to St. Paul on the 10th; it was very difficult to find the island because of the dense fog. On the 13th went south and west. Reached Atka Island on the 15th; thence went easterly along the Aleutian Islands. On the 17th seized the schooner *San Diego*, of and from San Francisco, in latitude $54^{\circ} 4'$ north and longitude $166^{\circ} 46'$ west. She had 577 seal skins on board, and the captain confessed to having taken seals in Bering Sea. I took her into Unalaska that night.

On the 26th of July I was again off St. Paul Island, and the agent of the Alaska Commercial Company came on board and informed me the sealing season on the island was ended, and the day before the agent at St. George Island had informed me of the same fact in relation to that island. On August 1st I seized a boat containing three men and eight dead seals. Proceeding southeasterly, seized another boat with men and several dead seals on board. Seized the schooner *Thornton*, of

Experience.

Corwin, 1886.

Sierra, 1886.

City of San Diego, 1886.

San Diego seized, 1886.

Sealing season, close of.

Thornton seized, 1886.

and from Victoria, British Columbia, in latitude $55^{\circ} 45'$ north and longitude $168^{\circ} 25'$ west. The two boats seized belonged to the *Thornton*.

Carolena seized 1886. The same evening seized the schooner *Carolena*, of Victoria, British Columbia, in about the same locality.

Half an hour later seized four boats belonging to the *Carolena* with dead seals on board. That night spoke schooner *Twilight*, sealing; but the captain stated they had taken no seals in Bering Sea, and on account of the schooners I had in tow I was unable to overhaul her.

The next morning at 4:10 sighted a schooner, evidently a sealer, but was unable to pursue her, owing to the fact of having the *Thornton* and *Carolena* in tow. At 4:40 a. m. spoke the schooner *Onward*, of Victoria, British Columbia, in latitude $55^{\circ} 10'$ north and

Onward seized, 1886. longitude $167^{\circ} 40'$ west. The master acknowledged he had been sealing in Bering Sea. Boarding her and

finding seal skins and unskinned dead seals on board, I seized her and took her also in tow. At 7:20 a. m. sighted another schooner, but she fled, and outsailed us. At 11 a. m., sighted a schooner under shortened sail. She at once changed her course and made all sail southeast and escaped. Reached Unalaska that night. The *Thornton*

had on board four rifles and six shotguns; the *Onward*, one rifle and thirteen shotguns; the *Carolena*, four rifles, one musket, and five shotguns. Altogether, the vessels I seized had over 2,000 seal skins. My orders made no distinction as to seizing English or American vessels, and

Skins seized.

each vessel seized received the same treatment without relation to the nationality of its crew or owner. Fogs are almost constant in Bering Sea in the summer time. During

Weather.

the fifty-eight days I cruised in those waters fifty-four days were foggy or rainy, the other four days being partly clear. On this account it is most difficult to seize vessels in Bering Sea. The reports of the guns of the hunters might often be heard when no vessel could be seen.

For fifteen or twenty days at a time I did not see the sun, and never while in Bering Sea did I see a star, the night being continually overcast or foggy. Our position was in nearly all cases determined by dead reckoning or bearing of the land. The following statements here made in relation to open-sea sealing are based upon my own observation, and also upon information I received from conversations with forty or fifty

men engaged in open-sea sealing in Bering Sea. The average size of the sealing vessels is from 25 to 50 tons, and the number of the crew varies from 10 to 20 or

25. A vessel is fitted out with about 4 to 6 boats, or 6 or 8 canoes. The white hunters used either a Winchester rifle or a double-barreled shotgun, and a gaff with a shaft 4 or 5 feet long. The Indians use a

Pelagic sealing.

toggle-headed spear, with a shaft 7 or 8 feet in length. Each boat has a rower and one or two hunters, and is also provided with a compass, small amount of provisions, ammunition locker, seal knives, and a short club. The boats, on being lowered from the vessel, provided the water is fairly smooth, go toward all points of the compass, and I have found them as far as 6 miles from the schooner.

The white hunter in a boat, when a seal appears on the surface, if within 50 yards, fires at it. If killed outright, the seal

Waste of life.

immediately sinks, and the boat is rowed for the place where it sank; but I do not think they recover many seals thus killed, and every sealer stated that they seldom expected to get a seal when killed

outright. It is almost impracticable to take a seal in the water unless it is wounded so that it is stunned, when it goes into a "flurry," similar to that of a whale when wounded. The boat then being pulled alongside, the seal is gaffed and dragged into it. The skill of the hunter has a great deal to do with the number of seals secured of those killed or wounded, but the most expert does not get more than half he hits and the average for hunters in general would be about three in ten. It is impossible to distinguish the sex of a seal in the water, unless it is an old bull. I am unable to state anything as to the proportion of females taken, but the seal-hunter shoots every kind of seal he sees. In my opinion open-sea sealing is very destructive, and unless prohibited will result in the extermination of the species at no very distant day. I also believe that it would be utterly useless to protect the rookeries on the seal islands and not protect the seal herd while in Bering Sea.

Proportion lost.

Prohibition necessary.

C. A. ABBEY.

Subscribed and sworn to before me this 8th day of April, 1892.

[L. S.]

SEVELLON A. BROWN,

Notary Public in and for the District of Columbia, U. S. A.

Deposition of L. G. Shepard, captain U. S. Revenue Marine.

PELAGIC SEIZURE.

DISTRICT OF COLUMBIA,

City of Washington, ss:

L. G. Shepard, being duly sworn, deposes and says: I am 45 years of age; a resident of Washington, D. C., and am captain in the U. S. Revenue Marine Service, chief of division Revenue Marine, Treasury Department. In command of the revenue steamer *Rush*, I made three cruises to Bering Sea in the years 1887, 1888, and 1889 for the purpose of enforcing existing law for protection of seal life in Alaska and the waters thereof, and also to protect other Government interests in Alaska. Pursuant to orders received from the Treasury Department, I sailed from San Francisco June 4, 1887, arriving at Unalaska on the 15th of that month. On the 18th I commenced cruising in Bering Sea. I hereby append to and make a part of this affidavit a table, marked A, giving the names of the vessels seized by me in Bering Sea while violating the law of the United States in relation to the taking of fur-bearing animals (all these vessels so seized were unmistakably engaged in sealing), together with the date of the seizure in each case, the nationality, rig, tonnage, hailing port, master, and managing owner of each vessel, the longitude and latitude in which each vessel was seized, the white men, Indians, and Chinamen on board at the time of seizure, the number of sealskins and the weapons on each vessel. In the cases of the *Challenge*, *Anna Beck*, *W. P. Sayward*, *Dolphin*, *Lilly L.*, *Grace*, and *San José* the vessels were towed to Unalaska, and their sealskins and arms were taken from them, and they were sent to Sitka. The *Ellen*, *Albert Adams*, *Annie*, *Alpha*, and the *Kate* and *Anna* were disarmed and the sealskins taken on board

Experience.

Cruises in Bering Sea.

Seizure of vessels.

Seizure of *Challenge*, *Anna Beck*, *W. P. Sayward*, *Dolphin*, *Lilly L.*, *Grace*, *San José*, 1887.Seizure of *Ellen*, *Albert Adams*, *Annie*, *Alpha*, and *Kate* and *Anna*, 1887.

the *Rush* at the time and place of seizure, and they too were sent to Sitka. All these vessels reported there, except the *Ellen* and *San José*, going to San Francisco, and the *Albert Adams*, to Victoria, British Columbia. I again sailed from San Francisco, the 3rd of July, 1888, and entered

Entered Bering Sea.

sealing vessels entered Bering Sea to take seals in 1888, and I made

No seizures in 1888.

British Columbia, was engaged in taking seal at the time we sighted

Juanita.

her, which was August 5, in latitude $54^{\circ} 38''$ north, longitude $166^{\circ} 54''$ west. In 1889 I again sailed from San Francisco for Bering Sea on June 1, and arrived at Unalaska June 16. Began cruising in the sea eight days later. I hereby append to and make a part of this affidavit a table marked B, giving the names of the vessels seized by me in Bering Sea while violating the laws of the United States in relation to the taking of fur-bearing animals, together with the date of seizure, nationality, rig, tonnage, hailing port, master, managing owner, latitude and longitude in which seized, and the white men and Indians on board at the time of seizure, the number of sealskins and weapons on each vessel seized. In nearly every case of those vessels named in Table B, they had boats out engaged in sealing. All of them were ordered to go to Sitka, but none of them reported there, all going to their home ports. The *Black Diamond*,

Black Diamond.

Minnie.

Pathfinder.

the *Minnie*, and the *Pathfinder* were each placed in charge of a special United States officer, who protested in vain against the noncompliance with the instructions given to proceed to Sitka. The *Minnie* in spite of the officer on board continued sailing in Bering Sea

until August 17, and secured during that time 478 sealskins.

I hereby append to and make part of this affidavit the number and

Seizures in 1889.

names of vessels fitted out for sealing boarded and examined by me in Bering Sea or the waters of Alaska Territory during the sealing season of 1889, together with the date of such boarding, nationality of the vessel, rig, tonnage, hailing port, master, owner, latitude and longitude, white men and Indians on board, seal skins and weapons found. The last three columns of said table are incomplete, from the fact that the officers boarding failed to get definite statements on these points. They were not seized, because evidence was wanting as to their having actually sealed in Bering Sea. During these three years I had frequent conversations with the masters and crews of sealing vessels in relation to open-sea sealing. From these conversations, and also from my own observations, I make the following statement in relation to pelagic sealing: The weapons used by seal

Weapons.

hunters are rifles, shotguns, and spears. The Indians use spears, and a canoe contains two Indians, the foremost thus armed. The white hunters use principally shotguns, but in some cases the rifle. A boat contains a hunter and a rower and a steerer. Whenever a seal comes within gunshot range, the white hunter fires at it. If killed outright, the seal sinks almost immediately

Seal sinks if killed.

and in nearly every case is lost. When so wounded that it is unable to dive, it goes into a "flurry," and the boat being pulled up rapidly, it is gaffed and dragged on board. The gaff used by seal hunters is about 5 feet in length.

It is very hard to estimate the number lost of those shot, but I should

Waste of life.

judge an expert hunter would lose certainly from 40 to 60 per cent, and a hunter not particularly expert

would lose from 80 to 85 per cent. I examined the skins taken from sealing vessels seized in 1887 and 1889, over 12,000 skins, and of these at least two-thirds or three-fourths were the skins of females. Of the females taken in the Pacific Ocean, and early in the season in Bering Sea, nearly all are heavy with young, and the death of the female necessarily causes the death of the unborn pup seal; in fact, I have seen on nearly every vessel seized the pelts of unborn pups, which had been taken from their mothers. Of the females taken in Bering Sea nearly all are in milk, and I have seen the milk come from the carcasses of dead females lying on the decks of sealing vessels which were more than 100 miles from the Pribilof Islands. From this fact, and from the further fact that I have seen seals in the water over 150 miles from the islands during the summer, I am convinced that the female, after giving birth to her young on the rookeries, goes at least 150 miles, in many cases, from the islands in search of food. It is impossible to distinguish a male from a female seal in the water, except in the case of a very old bull, when his size distinguishes him. Therefore open-sea sealing is entirely indiscriminate as to sex or age. I consider it necessary for the preservation of the seal herd which resorts to the Pribilof Islands, and for the prevention of their early extermination, that pelagic sealing should cease in all waters which they frequent.

Mostly pregnant females taken.

Females feed 150 miles from islands.

Sex indistinguishable in water.

Indiscriminate killing.

Absolute prohibition necessary.

Land only on islands.

Seals all born on islands.

Young pups cannot swim.

Zone useless.

I do not know and I never heard of any other place along the American coast or islands where the fur-seals haul up, and it is my opinion that the fur-seal pup of the Alaskan herd is born nowhere else but on the Pribilof Islands. It is my belief that a pup born in the water would drown, for I am convinced from statements made me by the natives and those thoroughly familiar with seal habits that a pup for the first weeks of its life is unable to swim. It is my opinion that should pelagic sealing be prohibited in a zone 30, 40, or 50 miles about the Pribilof Islands it would be utterly useless as a protection to seal life, because female seals go much farther than that in search of food, and because fogs are so prevalent about those islands that it would be impossible to enforce any such prohibition.

L. G. SHEPARD,
Captain U. S. Revenue Marine,
Chief of Division, Revenue Marine.

Subscribed and sworn to before me, a notary public in and for the District of Columbia, U. S. A., this 27th day of April, 1892.

[L. S.]

GEO. Y. COFFIN,
Notary Public.

TABLE A.

Number.	Date seized.	Nationality.	Rig.	Name and official number.	Tonnage.	Hailing port.	Master.	Managing owner.	Latitude (north).	Longitude (west).	White men.	Indians.	Chinamen.	Seal skins.	Breech-loading rifles.	Other arms.
1	1887 June 30	American.	Schooner	Challenge, 126539	36.61	Seattle, Wash. . .	H. B. Jones	Albert Doughass.....	Akontan Is- land.		14	1	...	151	4	5
2	July 2	British ...	Steam schooner.	Anna Beck, 64135	36.35	Victoria, B. C. . .	Louis Olsen.....	J. D. Warren, Victoria, B. C.	54° 58' 167° 26'		7	12	...	336	...	...
3	July 9	do	Schooner	W. P. Sayward, 83446 ..	59.79	do	George R. Ferry ..	do	54 43 167 51		6	19	...	477	...	...
4	July 12	do	Steam schooner.	Dolphin, 83445	60.10	do	J. D. Warren	do	54 38 167 63		7	26	...	618	4	36
5	July 16	American.	Schooner	Lilly L, 140872	63.42	San Francisco..	James W. Todd..	C. D. Ladd, San Fran- cisco.	55 46 170 38		22	...	...	197	9	61
6	July 17	British ...	Steam schooner.	Grace, 83442	76.87	Victoria, B. C. . .	William Petit....	J. D. Warren, Victoria, B. C.	55 03 168 40		6	24	1	769	3	22
7	Aug. 6	American.	Schooner	Ellen, 135838	12.03	San Francisco ..	Thos. H. Went- worth.	Claus W. Liljequist.....	54 19 166 56		6	...	...	185	3	3
8	Aug. 6	British ...	do	Alfred Adams, 83443..	63.75	Victoria, B. C. . .	W. H. Dyer	Jacob Gutmann, Victo- ria, B. C.	54 42 167 20		4	21	1	1,379	3	9
9	Aug. 6	American.	do	Annie, 106406	25.27	San Francisco ..	Henry Brown.....	James Ladin, San Fran- cisco.	55 05 167 19		11	...	...	304	2	5
10	Aug. 8	do	do	Alpha, 103761	26.58	Astoria, Oregon .	James Tatton.....	Jas. Tatton, Astoria, Oregon.	56 55 169 40		6	...	...	389	5	6
11	Aug. 8	do	Steam schooner.	Kate and Anna, 14373.	16.49	Portland, Oregon	Charles Lutjens..	Chas. Lutjens, Portland, Oregon.	57 07 169 51		7	...	1	577	6	8
12	Aug. 18	do	Schooner	San José, 116087	51.88	San Francisco ..	John S. Lee.....	James Garvin, Oakland, Cal.	54 14 167 28		16	...	...	891	7	6

TABLE B.

Number.	Date of seizure.	Nationality.	Rig.	Name and official number.	Tonnage.	Hailing port.	Master.	Owner.	Latitude (north).	Longitude (west).	White men.	Indian.	Seal skins.	Breech-load- ing rifles.	Other arms.	Indian spears.
1	1889. July 11	British	Schooner.	Black Diamond 61304.*	81.57	Victoria, B. C.	Owen Thomas	Frank & Gutman	56° 22'	170° 25'	5	20	76	1	....	20
2	July 15	do	do	Minnie, 94806	49.66	do	Victor Jacobson	Victor Jacobson	55 11	165 55	5	16	418	....	2	11
3	July 29	do	do	Pathfinder, 75908	69.88	do	William O'Leary	Bechtel	57 24	171 55	20	....	853	4	8	....
4	July 30	United States	do	James G. Swan, 76803	59.91	Port Townsend	Martin Benton	Chestoqua Peterson	55 44	171 4	2	14	171	2	2	11
5	July 31	British	do	Juanita, 72675	40.21	Victoria, B. C.	C. E. Clarke	Hall & Gospel	55 42	170 40	4	14	619	....	....	14
6	Aug. 6	do	do	Lily, 83443*	68.75	do	John Reilly	Frank & Gutman	55 29	166 15	5	25	333	....	....	23

*Partly owned by American citizens.

TABLE C.

Number.	Date boarded.	Nationality.	Rig.	Name.	Tonnage.	Hailing port.	Master.	Owner.	Latitude (north).	Longitude (west).	White men.	Indians.	Seal skins.	Rifles.	Other arms.
1	1889.														
2	July 4	United States.	Schooner.	Molly Adams.	123.43	Port Townsend.	Jacobs.	Jacobs.	Unalaska.		20				
3	July 4	do	do	Henry Dennis.	96.37	Salem, Mass.	Lavender.	do	Unalaska.		14				
4	July 4	do	do	Walter L. Kieh.	79.75	San Francisco.	Seward.	C. D. Lodd.	Unalaska.		18				
5	July 4	do	do	Lily L.	63.42	do	Minor.	do	Unalaska.		22				
6	July 11	British	do	Triumph.	98	Victoria, B. C.	McLean.	do	56° 5' 170° 41'		25				
7	July 19	United States.	do	Allie I. Algar.	79.42	Seattle, Wash.	Algar.	J. Nixon.	Unalaska.		18				
8	July 19	do	do	O. S. Fowler.	35.45	San Francisco.	Kienan.	do	Unalaska.		14				
9	July 23	do	do	Jas. Hamilton Lewis.		Seattle, Wash.	Raynor.	J. Nixon.	55° 44' 167° 18'		13				
10	July 23	do	do	Venture.	24.49	do	Nelson.	do	54° 42' 167° 38'		8				
11	July 24	do	do	Henry Dennis.	96.37	Salem, Mass.	Lavender.	do			14				
12	July 27	do	do	Margie Mc.		Victoria, B. C.	Dodd.	Dodd & Co.	57° 36' 171° 34'		20		561		
13	July 29	United States.	do	Molly Adams.	123.43	Port Townsend.	Jacobs.	Jacobs.	56° 44' 171° 33'		20		100		
14	July 30	British	do	Ariel.	90	St. John, N. B.	Buckman.	Buckman.	56° 43' 171° 44'		20		31		
15	July 30	do	do	Teresa.	63	Victoria, B. C.	Ferry.	Babington & Co.	56° 49' 171° 21'		23		108		
16	July 30	United States.	do	Allie I. Algar.	79.42	Seattle.	Algar.	J. Nixon.	57° 09' 171° 23'		18				
17	Aug. 1	do	do	San Diego.	38.01	San Francisco.	Nelson.	do	Off Akoutan.		12			6	
18	Aug. 13	British	do	Kato.	58	Victoria, B. C.	McLean.	C. Spring.	54° 52' 167° 20'		5				
19	Sept. 5	do	do	Mary Ellen.	63	do	McLean.	McLean.	Popoff Straits.		23		1,700		

* Picked up from Bessie Ruttler.

TESTIMONY RELATING TO THE RUSSIAN SEAL ISLANDS.

Deposition of John G. Blair, master of the Leon, now in service of Russian Sealskin Company.

PELAGIC SEALING AND RUSSIAN ISLANDS.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

John G. Blair, of San Francisco, having been duly sworn, deposes and says: I am 57 years old, and an American citizen, and am now and have been for the past 14 years, until recently, master of the schooner *Leon*, formerly in the service of Hutchinson, Cole, Philipeus & Co., and now employed by the Russian Sealskin Company. During all this time I have been constantly

Experience.

engaged in the fur-sealing industry, and am familiar with the habits of these animals both on the land and in the water. I was in charge of and attended to the killing of seals upon Robben

Island for the lessees from 1878 to 1885, inclusive, taking from one to four thousand seals per annum in each of these years for their skins, and have visited the islands in the *Leon* every year except two since 1885 to the present date. During the

In charge of Robben Island 1878-1885.

two years excepted I was sealing on the Commander Islands. In 1870, as I am told by Capt. Daniel Webster, who was familiar with the facts and interested in the expedition, the island was occupied by the crew of the bark *Mauna Loa*, who killed every seal that could be reached, taking about 16,000 skins. A sufficient number, however, escaped, so that several hundred appeared in the following year. They were not, I believe, again molested until 1873, when a few hundred per year were killed in that and each of the following years until 1885. It was estimated that 12,000 seals were born upon or visited the islands in 1881, previous to which there had been no poaching. Since 1885 a Russian officer and guard has been kept there during the sealing season, and no seals permitted to be killed, but nearly every year since 1885, late in the season, after the guard had been withdrawn, poachers have visited the islands and killed all that could be found at that season of the year. They secured in this way 4,700 skins in 1890, and left the carcasses lying on the beach. Five hundred and forty seals were killed last year, and it was estimated that some 5,000 of all ages came to the islands, including the pups born during the season, or about one-half the number found there in 1880. I am told and believe that the Robben Island seals can be distinguished by experts from those on the Commander Islands, and am satisfied that they do not mingle with them, and are a separate and distinct herd. They remain on and about the islands in

Raid on Robben Island in 1870 by the *Mauna Loa*.

Raid on islands.

Difference between Robben and Commander seals.

Do not mingle.

large numbers until late in the fall. I have been accustomed to leave in October or early in November, and seals were always plentiful at that time. I am of opinion that they do not migrate to any great distance from the island during the winter. A few hundred young pups are caught every winter by the Japanese in nets off the north end of Yesso Island.

Migrate to no great distance.

I have made 32 voyages between the Aleutian Archipelago and the Commander Islands, but have never seen seals between about longitude 170 west and 165 east. I am satisfied the Alaska seals do not mix with those of Siberia. I have seen seals in winter and known of their being caught upon the Asiatic side as far south as 36 north latitude.

Alaskan and Siberian seals do not mingle.

Robben Island is very small, being 1,960 feet long by 175 feet wide, and in places 46 feet high. Of necessity the quarters of the seal hunters and guards, as well as the killing grounds, are very near the rookeries, being not more than 75 feet distant from them, yet the seals appear to take no alarm from the close proximity of the men, paying very little attention to persons passing and repassing a short distance from them. If none of them were killed, or if the killing were properly restricted to the males, I think they would increase very rapidly and be as closely subject to control as the cattle upon the great open pastures of the Rocky Mountain regions. There would be little trouble in catching all the young seals and branding or marking them.

Restricted killing necessary.

During my connection with the business several marauding vessels, both British and American, have been captured and confiscated by Russian authorities for illegally killing seals in waters adjacent to Robben and Commander islands. Among these were the American schooner *Henrietta*, and the German schooner *Helena*, in 1884; the British schooner *Aurania*, and the American schooner *James Hamilton Lewis*, in 1889; and the British schooner *Rose*, in 1890; but I have never heard of any protest against these captures, nor of attempts to recover the property.

Seizure of *Henrietta*, 1884; *Helena*, 1884; *Aurania* and *James Hamilton Lewis*, 1889, and *Rose*, 1890.

As proving that the seals return to the islands, I put a canvas collar upon a pup in 1880, and he came back to the same rookery in the following year still wearing the collar.

Return of seals to islands.

JOHN G. BLAIR.

Subscribed and sworn to before me this 28th day of April, A. D. 1892.

[SEAL.]

CLEMENT BENNETT,

Notary Public.

Deposition of C. F. Emil Krebs, agent of lessees of Commander Islands, and in charge of Copper Island.

COPPER ISLAND, MANAGEMENT.

STATE OF CALIFORNIA,

City and County of San Francisco, ss :

C. F. Emil Krebs, having been duly sworn, deposes and says: I am a native of Libau, Russia, 49 years old, and an American citizen, duly naturalized, and a resident of San Francisco, Cal.

Experience.

I first went to Alaska in 1869 for the American Russian Commercial Company, of San Francisco, and was stationed at Atka as a fur-trader, where I remained two years. In 1871 I entered

the service of Hutchinson, Kohl & Co., lessees from Russia of the right to take seals upon the Commander Islands, and was placed in charge of Copper Island, of this group, and so remained constantly for ten years, until 1881, without once leaving my post of duty. In this position the habits of the seals, the condition of the rookeries, the best methods of obtaining seal-skins for market, and, in general, everything in and about the business of my employers on the island, received my careful and constant attention.

The management of the sealeries upon Copper Island, under Russian occupation, was left wholly to the native chiefs and ignorant laborers of the Russian-American Company. The work of killing the seals and curing the skins was done by them in a very unsystematic, careless way; but even then it was understood that, as the seals are polygamous, the surest way to secure an increase of the herd was to kill off surplus males and spare the females, and this was systematically practiced, resulting, as far as I am aware, most satisfactorily. After the expiration of the franchise of the Russian American Company, in 1867 I think it was, and their abandonment of the island and the execution of the lease to Hutchinson, Kohl & Co., in 1871, several different parties visited the island, killed seals injudiciously, and inflicted great injury upon the rookeries. They were restrained to some extent by the natives from indiscriminate slaughter, but I have no doubt they killed more male seals than they ought to have done, and perhaps also some females. Upon my arrival at the island, in 1871, the native chief told me that the seals were not as plentiful as they had been formerly. I announced that we intended to secure 6,000 skins that year. They protested that it was too many, and begged that a smaller number be killed for one year at least. We, however, got the 6,000 skins as proposed, and an almost constantly increasing number in every subsequent year as long as I stayed on the islands, until in 1880 the rookeries had so developed that about 30,000 skins were taken, without in the least injuring them. This is proved by the fact that the increase for the next ten years allowed still larger numbers to be killed, amounting, I think, in one of the years of the second decade of the lease to about 40,000 skins.

In order to secure uniformity in the methods pursued, respectively, upon the Pribilof Group and Commander Islands the respective lessees of the two interests sent Capt. Daniel Webster, an expert sealer of many years' experience in the business, and who was at the time in the service of the Alaska Commercial Company at St. Paul Island, to assist and instruct me through the summer of 1874 in the best manner of handling seal droves, salting skins, and, generally, in the conduct of the business. In working under his direction I found that the methods pursued by the respective parties upon the different sealeries did not differ in any essential feature. The main object in both places was to select good skins for market and spare all female seals and enough vigorous bulls to serve them. When the supply of bulls is more than enough I have no doubt the number of offspring is diminished. The bulls, when overnumerous, fight savagely for the possession of the cow seals and unintentionally destroy many young in their conflicts. The healthiest condition of a rookery is, no doubt, when, under the laws of polygamous reproduction for this species, the proportion of the sexes is properly balanced. I believe one

Killing seals and curing skins.

Raids between 1867 and 1871.

Decrease up to 1871.

Skins secured in 1871.

Increased number taken up to 1890.

Uniformity in methods on Pribilof and Commander Islands.

Excess of bulls, effect of.

bull capable of serving at least fifteen or twenty cows with most desirable results.

The best methods of managing seal rookeries are as well understood and as carefully practiced as any other branch of husbandry, and the same methods have been pursued with such excellent results through a long series of years that there can be no doubt about their correctness.

Copper Island is some 30 miles long and from 1 to 3 miles wide.

Rookeries on the island, location of.

The rookeries lie on the easterly and the village and killing grounds on the westerly side of the island.

Between the rookeries and the killing grounds a continuous ridge, ranging from a few hundred to 2,000 feet in height, runs the whole length of the island. Over this ridge, at a point where it

Driving and re-driving.

reaches about 600 or 700 feet in height, all the seals are driven; the journey requiring from five to twenty-four hours, depending upon the weather. The practice

of thus driving them has been pursued ever since the earliest history of the business. Many of the seals are repeatedly driven and redriven

No injury from re-driving.

over this trail in a single summer, but I have never seen any injury to them from the exertion to which they are in this way subjected. The statement of an expert that

the virility of the seal is sapped and his powers of reproduction in any way weakened by such re-driving is not borne out by the facts. On the contrary, the steady and rapid increase of the herd at Copper Island, already pointed out, again proves the old adage that in this matter, as in others, "theory is everywhere good except in practice."

I append hereto a statement showing the number of seals killed annually upon Copper Island from 1871 to 1880, inclusive.

Number of seals killed on island from 1871 to 1880.

This statement shows that 3,658 skins were taken in 1871. This number were shipped that year, but the number actually killed was in fact more than 6,000.

C. F. EMIL KREBS.

Subscribed and sworn to before me this 2d day of May, 1892.

[L. S.]

CLEMENT BENNETT,
Notary Public.

The following table shows the number of fur-seals taken for their skins on Copper Island, of the Commander group, from 1871 to 1880, inclusive, under the direction of C. F. E. Krebs, for Hutchinson, Kohl & Co.:

1871.....	3,658	1877.....	11,392
1872.....	14,964	1878.....	20,070
1873.....	14,661	1879.....	25,166
1874.....	15,480	1880.....	30,014
1875.....	20,440		
1876.....	15,074	Total	170,919

NOTE.—There were in fact about 6,000 killed in 1871, of which only the numbers as above stated were shipped. In 1876 and 1877 more could have been taken, but the seal-skin market was depressed and they were not wanted.

I certify that the above table is the one referred to in the foregoing deposition of C. F. E. Krebs.

[L. S.]

CLEMENT BENNETT,
Notary Public.

Affidavit of John Malowansky, agent of lessees of Commander Islands.

MANAGEMENT; PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

John Malowansky, being duly sworn, deposes and says: I am a resident of San Francisco, Cal., and an American citizen, though a Russian by birth. I am a merchant by profession, and am agent for the Russian Sealskin Company, and was formerly, for many years, the agent for Hutchinson, Kohl, Phillipens & Co., the former lessees of the Russian seal islands.

During the years 1869, 1870, and 1871 I resided on the Commander Islands, in the pursuit of the sealing business, of which I had charge. I was there agent in 1887 as the agent of the company. I formerly lived in Kamchatka, and frequently visited the Commander Islands between 1871 and 1887. I have also been a dealer in furs. I am well acquainted, from long experience and observation, with all matters pertaining to the sealing business and the present condition of the fur-seal trade, especially on the Russian side of the Bering Sea. When our lease of the Commander Islands took effect in 1870, the annual catch of seals would not exceed 15,000 without injury to the herd. There was no maximum limit in our lease as to the number we were allowed to kill, but under the method adopted by the company in taking seals, only young males with merchantable-sized skins were killed. Under this system the seals increased so rapidly that in 1887 we had no trouble in obtaining 45,000 skins per annum without injury to the herd. In 1887 I began to notice a diminution in the number of seals arriving at the islands, which was due to the indiscriminate killing by sealing vessels in the open sea, some 50 or 60 miles distant.

Experience.

Increase on Commander Islands from 1870 to 1887.

Decrease since 1887.

While we still obtain about the usual number of skins, many are taken from the younger animals than formerly, and consequently are somewhat inferior in quality.

Smaller skins taken.

It is often difficult to entirely prevent poaching on the islands, although in my judgment it has not been of sufficient importance on the Commander Islands to have any perceptible influence in the diminution of the herd.

Poaching.

In 1891 the schooner *J. H. Lewis* was caught near the islands by the Russian gunboat *Aleut* and found to have 416 skins on board. I made a personal examination of these skins, and found that from 90 to 95 per cent were those of female seals. I called the attention of the English commissioners, Sir George Baden-Powell and Dr. G. M. Dawson, to this fact when they visited the islands in 1891, showing them the skins. I opened a few bundles of the skins for their inspection and offered to show all of them, but they said they were satisfied without looking at any more than those already opened. I remember that a schooner from Victoria was also seized at the islands about three years ago by the Russian authorities with 33 skins on board, which were nearly all taken from female seals.

Seizure of the *J. H. Lewis* in 1891.

Ninety to 95 per cent of skins on board those of females.

Called attention of British commissioners thereto.

I have no doubt that in obtaining the skins found on the *J. H. Lewis* the poachers must have killed from 1,500 to 2,000 seals, as when vitally shot seals will usually sink before it is possible to capture them.

Waste of life.

I have frequently noticed in the harbor of Petropaulowsky that the natives in killing hair-seals are only able to obtain one animal out of every four or five of those killed, and that they frequently wait about four days for the bodies to be washed ashore.

During the killing season on the Commander Islands we frequently find in the bodies both bullets and shot,

I know it to be the custom of seal hunters to shoot seals at sea when they are at rest upon the surface of the water, and that those generally obtained are females and constitute but a very small portion of those killed and lost.

Sealing on Robben Island, in the Russian group, was prohibited for a period of five years for the purpose of encouraging the increase of the herd, but their propagation was interrupted by the frequent attempts of poachers to raid the rookeries, and I believe that 4,000 or 5,000 seals were killed by the marauders while we were attempting to promote the growth of the herd.

Prohibition on Robben Island.

Raids.

There are many fines imposed at the Commander Islands for killing female seals, even by accident, and I am quite certain that the decrease in the number of seals thereon is not owing to the methods employed in killing. When a female is discovered in a herd while being driven to the killing ground she is carefully turned back and slowly driven to the water's edge, sometimes the work of several hours.

Special precautions are taken not to frighten or molest the animals on the rookeries. Even fires are not permitted to be made where it is thought their light or sight of the smoke might alarm them.

My observation has also been that while male seals are sometimes timid about coming ashore, the females being about ready to pup, haul up on the land, even in spite of unusual or unfavorable conditions. Pups if born in the water are sure to drown. It is a matter of actual observation that they must first learn to swim, and do not leave the shore until they are four or five months old. I have often seen the mother seals push their pups, when several weeks old, into the water and watched them flounder about awkwardly and scramble ashore, seeming delighted to get back.

Pelagic birth impossible.

Pups learning to swim.

The seals of the Commander Islands are of a different variety from those of the Pribilofs. Their fur is not so thick and bright and is of a somewhat inferior quality. They form a distinct herd from that of St. Paul and St. George and in my opinion the two do not intermingle.

Commander herd different from the Pribilof.

I was present as interpreter when the English Commissioners were taking testimony on Bering Island. They examined among others when I was present, Jefim Snigeroff, chief on Bering Island, he being the person selected by them there from which to procure the testimony relating to the habits and killing of seals. This Snigeroff testified that he had lived on the Pribilof Islands for many years and knew the distinctive characteristics of both herds (Commander and Pribilof) and their habits and that he removed from thence to Bering Island. He pointed out that the two herds have several different characteristics and stated that in his belief they do not intermingle.

Testifies as to statements made to British Commissioner by Jefim Snigeroff, native chief.

He also said that the pups could live on land at least seven or eight days without sustenance and that those born in the water would immediately drown. He further stated that the seals had rapidly decreased

since sealing vessels had appeared, but that before the inroads of these seal hunters there was no trouble in obtaining the full quota of the best grades of skins, as the herds had previous to that time been noticeably increasing.

The driving grounds on Copper Island are very rough and hilly and much more difficult to drive over than those on the Pribilof Islands. The drives are always carefully made, slow, with a chance to rest, and foggy days are selected. I have never been able to discover any injury to the herds from these drives, nor do I believe there is any. The killable seals herd by themselves, and until recently we did not drive from all the hauling grounds, but this we have had to do in the last three or four years, because the seals were getting scarce as the result of hunting them at sea. It is an actual fact beyond dispute that female seals were much more numerous on the islands in 1883 than they were in 1870. The increase was gradual each year and was so marked that the natives often spoke of it to me, but from 1885, which was about the time the sealers appeared in the waters, the decrease in seal life was rapid and the natives commenced saying "no females," "no females," until now we are confronted with depleted rookeries and probable extermination.

Driving.

Increase of females
from 1870 to 1883.Decrease rapid
since 1885.

JOHN MALOWANSKY.

Subscribed and sworn to before me this 15th day of April, A. D. 1892.
[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of N. B. Miller, assistant in scientific department of U. S. Fish-Commission steamer Albatross.

ROOKERIES ON COMMANDER ISLANDS.

N. B. Miller, an assistant in the scientific department of the United States Fish-Commission steamer *Albatross*, being duly sworn, deposes and says: I visited the Reef rookery and Northeast Point rookery on St. Paul Island, Pribilofs, and the Village rookery of St. George Island, Pribilofs, and took a number of photographs on each. On June 1, 1892, I visited the North rookery of Bering Island, Commander Islands, where I also took a number of photographs. This rookery is a low, flat, rocky reef extending from the base of a bluff about 40 feet high, seaward to a distance of about half a mile. The width along the bluff is about $1\frac{1}{2}$ miles. It is composed of loose masses of rough volcanic rock from 1 to 15 feet above the high-water mark, with scattered shallow pools of water between the rock piles. None of the rocks appeared to be worn, as from the action of seal flippers, although I examined some of them with that idea in mind. There was no soil on the breeding space of the rookery, which occupies the greater portion of the wedge-shaped point. The higher masses of rock are mostly at the outer end, the rookery being lower towards the bluff. About the center of it, near the bluff, are three or four shallow lagoons or pools of small extent. The west arm of the rookery is a long and comparatively smooth sand beach, with but few rocks on it, over which the bachelors are said to haul. Between the nearest lagoon, about 50 yards

Experience.

Bering Island, de-
scription of North
rookery on.

distant from the bluff, and the bank itself, is an area of scant soil, on which a scattering growth of vegetation has sprung up. This growth appeared to me to be of comparatively recent origin—within five or six years, I should say. I believe this area was formerly occupied by seals.

On June 1 I estimated the total number of seals on the entire rookery to be about forty; three of them bachelors, one cow, and the remainder bulls. The three bachelors, the cow, and one of the bulls were killed on the grassy space between the lagoon and the base of the bluff, where they were driven. A young pup, unborn, was taken from the female seal; I think it would have been delivered in about a week's time. The North rookery of Bering Island is in every way rougher than any I observed on the Pribilof Islands. I saw

Drives from North rookery.

two of the drives from the North rookery. One of the routes leads over the rough rookery, through the shallow lagoon, and up the bluff at a place where the angle is about 35° to the grassy plain in front of the temporary dwellings of the natives, a distance in all of about a quarter of a mile; the other leads up the bluff from the sand beach at the western arm of the rookery, out beyond and back of the settlement, over a comparatively level but marshy and broken country, to a distance of from 1½ to 2 miles. I consider these drives harder and rougher than those of the Pribilof Islands. The killing ground at the terminus of the shorter drive is small and did not

Copper Island, description of Polatka Rookery on.

appear to be used to any extent. On June 4th, 1892, I landed on and photographed Polatka rookery, on the western coast of Copper Island. This is somewhat similar to the North rookery of Bering Island, but is very much narrower, and instead of being composed of loose rock heaps is largely of great tilted masses of stratified volcanic rock with very sharp and jagged edges. It is less than a mile long and at the widest part, including the outlying rocks, not more than 300 yards in width, measuring right up to the base of the bluffs. It lies at the foot of abrupt cliffs from 600 to 800 feet in height along its whole length with the exception of one point. This is about the center of the rookery, where there is a small hill of hard-packed sandy soil about 60 feet high, back from which a very steep ascending ravine leads to the summit of the ridge, an elevation of about 700 feet.

The drive from Polatka rookery.

The drive from Polatka rookery leads up over this sand hill and through the ravine; over the ridge, I was informed, the rest of the 2 miles is on a descending grade to the other side of the island, where the killing ground is located. The rocks of this rookery also did not have the appearance of being flipper-worn. There were no signs of vegetation on the entire rookery, and no soil apparently, except on the sandy hill at the mouth of the ravine. I estimated about 250 fur-seals on Polatka rookery, about 30 of them bachelors. I saw no cows, and think they had not yet arrived, as 40 codfish were landed on the decks of the *Albatross*, where she lay within 500 yards from the shore, in an hour. I think if feeding cows had been about the rookery, the fish would not have been found so close to it. From an elevated position on Polatka, I obtained

Pestchanni rookery and drive from, description of.

a good view of the rookery next above it, called Pestchanni. The character of this is similar to Polatka, but has a sand beach adjacent to it where the bachelors doubtless mostly herd. The drive from here, as I was shown it, leads up a shallow stream a short distance, and then over the mountain side to the ridge, a height of fully 800 feet, from whence it continues down to the opposite side of the island. Both of

these drives on Copper Island are exceedingly hard and rough; I know of none on the Pribilof Islands to compare with them. The seals of the Commander Islands appeared to me slightly different from the Pribilof fur-seals. They are grayer in color, and of a slighter build throughout the body. The bulls have not such heavy manes, or fur capes, the hair on the shoulders being much shorter, and not nearly so thick. The younger seals have longer and more slender necks apparently. I noticed this difference between the seals at once.

Commander Island seals differ physically from those of the Pribilof Islands.

N. B. MILLER.

Subscribed and sworn to before me this 23d day of June, 1892.

Z. L. TANNER,
Lieutenant-Commander, U. S. Navy.

Deposition of Thomas F. Morgan, agent of lessees of Commander Islands.

HABITS.

DISTRICT OF COLUMBIA,

City of Washington, ss:

Thomas F. Morgan, of Groton, Conn., being duly sworn, deposes and says: During the season of 1891 I was the agent of the Russian Sealskin Company, of St. Petersburg; that I was on Bering Island at the time that Sir George Baden-Powell and Dr. George M. Dawson, the British representatives of the Bering Sea Joint Commission, were upon said island investigating the Russian sealeries upon the Komandorski Islands; that I was present at an examination, which said Commissioners held, of Sniegeroff, the Chief of the natives on Bering Island, who, prior to the cession of the Pribilof Islands by Russia to the United States, had resided on St. Paul, one of said Pribilof Islands, and that since that time had been a resident on said Bering Island, and during the latter part of said residence had occupied the position of native chief and as such superintended the taking and killing of fur-seals on said Bering Island; that during said examination the Commissioners, through an interpreter, asked said Sniegeroff if there was any difference between the seals found on the Pribilof Islands and the seals found on the Komandorski Islands; that said Sniegeroff at once replied that there was difference and on further questioning stated that such difference consisted in the fact that the Komandorski Island seals were a slimmer animal in the neck and flank than the Pribilof Island seals, and further that both the hair and fur of the Komandorski Island seal were longer than the Pribilof Island seal; said Commissioners asked said Sniegeroff the further question, whether he believed that the Pribilof herd and Komandorski herd ever mingled, and he replied that he did not.

Experience.

Testifies as to statements made to British Commissioners by Sniegeroff, native chief.

THOMAS F. MORGAN.

Subscribed and sworn to before me this 5th day of April, 1892.

[L. S.]

SEVELLON A. BROWN,
Notary Public in and for the District of Columbia, U. S. A.

Deposition of Gustave Niebaum, vice-president of Alaska Commercial Company and employé and partner of lessees of Commander Islands.

MANAGEMENT.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Gustave Niebaum, having been duly sworn, deposes and says: I am a resident of San Francisco, 50 years of age, and an American citizen, becoming so by reason of the cession of Alaska. I was formerly a resident of that Territory and shipmaster for the Russian American Company prior to the transfer of Alaska to the United States. I was from 1880 until 1891 vice-consul of Russia at the port of San Francisco, and am now, and have been for several years past, vice-president and director of the Alaska Commercial Company and a partner of Hutchinson, Kohl & Co., the former lessees from Russia of the Commander and Robben islands.

I was instrumental in Russia in obtaining the lease for the last-named company and had familiarized myself with the sealeries upon these islands in this connection. In 1871 I visited the islands and directed the policy and practice to be pursued under the lease. In this pursuit I of course became conversant with all the details of the business. Under the Russian régime upon the Commander Islands prior to 1868 the number of seals taken annually did not exceed about 5,000, the skins of which were dried for market. Following the surrender of occupancy of these islands by the Russian American Company in 1868, the sealeries were left open to all parties and various expeditions visited them unrestricted by any Governmental control. Their catches amounted in 1868 to about 15,000, in 1869 to about 20,000, and in 1870 to about 30,000 skins.

In 1871 the Russian Government executed the lease to Hutchinson, Kohl & Co., and it was found necessary to restrict the killing for this year to about 6,000 skins, because the rookeries had been largely depleted by the excessive killing, unwise methods, and heedless husbandry. The result of improved methods showed themselves at once, and the rookeries steadily increased in size and number of occupants. We were thus enabled to procure an almost constantly increasing number of skins from year to year during the whole term of our lease. We were unrestricted as to the numbers to be taken, and after the first two years of the lease were urged by the Russian authorities upon the islands to take more than we wanted in view of the condition of the sealskin market.

I revisited the islands on various occasions subsequent to 1871, and my observations confirmed the fact that we were moving in the right direction to secure an increase of the rookeries. The experience of the whole term of the lease proves conclusively that our policy in conducting the business was a wise one and that our manner of handling, managing, and killing the seals was in every respect what it should have been. This policy was predicated upon the custom of the Russian American Company observed during many years and strengthened by my own actual experience in conducting the business of taking seals upon the Pribilof Islands in 1867-'68 and 1869, and more particularly during the season of 1868, when there was unrestricted

sealing done by various parties regardless of the future of the rookeries. The pernicious effects of the methods pursued by them were at once observed, and measures immediately taken by me, aided by the natives, over whom I had complete control, to correct their practices and bring them within the reasonable customs already proved efficacious in preserving the rookeries from annihilation. The various parties took that year about 236,000 seals, of which about 140,000 were killed under my direction. Upon the Commander Islands, as I have already said, the increase in seal life was constant for many years, but in 1890, we noticed a decided disturbance in the rookeries and a considerable decrease in their population. This we subsequently attributed, when the facts were ascertained, to pelagic sealing in the adjacent waters. There were occasional raids made upon the islands by poachers during our twenty years' lease, but they were generally unsuccessful in killing any considerable number of seals, and their raids had no appreciable effect upon the rookeries.

Slaughter of 1888.

Decrease noticed in 1890.

Raids.

My first ideas of the areas of seal rookeries were gathered on the Pribilof Islands. Afterwards, upon going to the Commander Islands, I was struck with the comparative insignificance of the rookeries upon the latter group; yet we have been able to secure the catch, as shown by the appended statement, not only without detriment, but, as I believe, with positive benefit to the rookeries. I cannot think, therefore, that the same methods pursued under my direction upon the Pribilof group worked any other result, and in this conclusion I am borne out by the testimony of every one conversant with the matter.

Comparative sizes of rookeries on Commander and Pribilof islands.

The history of sealing upon Robben Island substantiates the conclusion in regard to the other groups. From information gathered from various sources, I learn that the Robben Bank was first visited and exploited by whalers about 1852 or 1853, and that in two seasons they obtained some 50,000 to 60,000 skins, almost completely "cleaning it out." I understood for several years thereafter the occasional vessel which touched there found the rookeries practically deserted. In 1870 the expedition in the bark *Mauua Loa* went to the island and secured about 15,000 seals. There was at this time no restriction upon the killing.

History of sealing on Robbin Island.

In 1871, in August, I think it was, the lease being already in force, I visited the island for the first time, having previously sent a guard ship there to protect the rookeries. It is an insignificant affair, being only about 2,000 feet long and 200 feet wide. The rookeries were also very small, and contained at that time of all classes about 800 seals, as I ascertained by a careful count, and, in addition, a small number in the waters adjacent. I prohibited all killing from that year until such time as seemed prudent to resume, so as to give the rookeries opportunity to recuperate, leaving strict orders to the guard ship to protect them against molestation. Two years afterward it was evident that the rookeries had sufficiently recovered to warrant us in commencing sealing on a small scale, knowing that the killing of the useless male seals would accelerate the increase of the herd. From this time forward the herd showed a steady and healthy growth, enabling us to secure catches as per appended statement until 1873, when our guard was assaulted by the combined force of eleven marauding schooners and driven away. The rookeries were again badly depleted by these poachers. The following year the Russian Government stationed

Size of island.

Raids.

a military force on the islands, which was removed every fall, but so early that marauders came there nearly every year after it had left and killed all the seals they were able to obtain, so nearly destroying the rookeries that we found it inexpedient to continue sealing after 1884 during the remainder of our lease.

I am satisfied that the seal herds respectively upon the Pribilof group, the Commander Islands, and Robben Bank have each their own distinctive feeding grounds and peculiar rounds of migration. No doubt they are of the same species, but there is a marked difference in the fur of the skins from the respective places, which can be distinguished by experts.

Russian and Alaskan herds do not mingle.

Difference in fur.

G. NIEBAUM.

Subscribed and sworn to before me this 29th day of April, A. D. 1892.

[L. S.]

CLEMENT BENNETT,
Notary Public.

The following table prepared by Hutchinson, Kohl, Philipeus & Co., of San Francisco, lessees of the right to take fur-seals upon the Commander and Robben Islands, shows the number of seal skins secured annually from these respective islands from 1871 to 1891:

Year.	Commander Islands.	Robben Islands.	Total.
1871	3,614		3,614
1872	29,356		29,356
1873	27,710	2,694	30,404
1874	28,886	2,414	31,300
1875	33,152	3,127	36,279
1876	25,432	1,528	26,960
1877	18,584	2,949	21,533
1878	28,198	3,142	31,340
1879	38,748	4,002	42,750
1880	45,174	3,330	48,504
1881	39,314	4,207	43,521
1882	40,514	4,106	44,620
1883	26,650	2,049	28,699
1884	49,444	3,819	53,263
1885	41,737	1,838	43,575
1886	54,591		54,591
1887	46,347		46,347
1888	47,362		47,362
1889	52,859		52,859
1890	53,780		53,780
1891	5,800		5,800
			776,467

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

I, Clement Bennett, a Notary Public in and for said city and county, residing therein, duly commissioned and sworn, do hereby certify that the above tabulated statement is that to which Gustave Niebaum refers in his affidavit, of which this is made a part.

In witness whereof, I have hereunto set my hand and affixed my official seal, at my office in the city and county of San Francisco, State of California, this 29th day of April, A. D. 1892.

[L. S.]

CLEMENT BENNETT,
Notary Public.

TESTIMONY RELATING TO THE ALEUTIAN ISLANDS.

Deposition of C. H. Anderson (sealer), Master.

HABITS. PELAGIC SEALING.

TERRITORY OF ALASKA,

Dutch Harbor, Unalaska Bay, Aleutian Islands, ss:

C. H. Anderson, a citizen of the United States of America, forty-eight (48) years of age, being duly sworn, deposes and says: I am a master-mariner by occupation, and reside in San Francisco, Cal. I have been sailing in Alaskan waters since 1880.

Experience.

For (7) seven years I cruised in the Unalaska district, which embraces the Shumagin and Sannak Islands, the Aleutian chain, the Pribilofs, Bristol Bay, and the eastern coast of Bering Sea as far as St. Michaels. I have made (4) four or (5) five trips from Unalaska to Attu and return, and (8) eight or (9) nine between Atka and Unalaska, chiefly in spring and fall of the year. The main herd of the fur-seals bound for the Pribilof Islands moves through the passes of the Fox Islands of the Aleutian chain, Unimak Pass being the eastern and the Four Mountain Islands Pass the western bounds through which the seals move in large numbers. A few occasionally go through Morzhovoi Pass on their way north, and in the passage south in the fall gray pups often stray into Unalaska Bay as far as Captains Harbor, doubtless thinking it is one of the passes through the group. I never saw a fur-seal in the water between Atka and the island Attu. The natives along the northern shores of Bristol Bay have no knowledge whatever of fur-seals, nor do those of St. Michaels appear to be any better informed.

Migration.

The seals first pass into Bering Sea early in May and keep on arriving as late as the latter part of July, but most of them I think enter the sea during the latter part of June or early in July. I do not know at what times they leave, but have observed that it depends on the mildness of the winter how soon they begin to depart. I can not distinguish the sex of seals in the water. Neither do I know the usual times of the arrival and departure of the various categories to and from the seal islands.

Sex indistinguishable in water.

Do not know through which passes the bulls, bachelors, and females usually move; but the westernmost passes are those most frequented by gray pups in the fall on the way south. I think the Commander Islands seals are a different body of seals altogether from those of the Pribilofs, and that the two herds never mingle. I think the Commander Islands herd goes to the southward and westward towards the Japanese coast. I never knew of fur-seals hauling out to rest or breed at any place in the Aleutian chain, or anywhere in fact, except the well-known rookeries of the several seal islands of Bering Sea.

Herds do not mingle.

and westward

Do not haul up on Aleutian Islands.

I have noticed a great decrease in the numbers of the fur-seals since 1887, both on the rookeries of St. Paul Island, which are much shrunken, in the area covered by seals, and in the waters of the Pacific and Bering Sea. On the rookeries, ground formerly hauled over by seals is now grown up with a scattering vege-

Decrease.

Seals more timid. tation of recent growth. In the sea seals are much more timid and make off as fast as possible at the approach of a vessel, while formerly they were usually quite curious, and would sport and play about the vessel when come up with. I believe this decrease and timidity is due to the indiscriminate slaughter of the seals by pelagic sealers, and am of the opinion that if such sealing were absolutely suppressed the species would again increase.

C. H. ANDERSEN.

Subscribed and sworn to before me this 13th day of June, 1892.

Z. L. TANNER,

Lieutenant Commander, U. S. Navy.

Deposition of Ruth Burdukofski, native Aleut sealer.

PELAGIC SEALING.

Personally appeared before me Ruth Burdukofski, who, being duly sworn, deposes and says: I am 64 years of age, a native Aleut, being born on Bering Island, and do now reside, the age of 17 resided, at Unalaska. In my early life, during the time of the Russian American Company, I hunted seals in my bidarka in and off the bays of Unalaska Island. In the spring, as early as February or March, the big bulls first came. The latter part of March came the "holluschickie," or younger bachelor seals; these in turn were followed by smaller males, and last of all in early June came the mothers or "matkie," which were in haste to reach the land to be delivered of their young.

In the fall of the year, chiefly during November, when the wind coming from northerly directions blow them toward these shores, was the time to go out and capture the young seals.

When the wind blew from the southerly directions no pups were to be found. I never saw any older seals with them, and can not say just what time the seals of different ages and sexes go through the passes in this vicinity.

I believe these pups were the weaker ones, who could not follow their mothers, and being temporarily lost were driven by northerly winds into the quieter bays and harbors, and there rested. No old seals ever haul out in this vicinity. Immediately after northerly gales, and before the water has grown so quiet that the young pups can again continue their journey, is the best time for capturing them. There is no regular time about this, it depends on the weather. In late years I have not hunted, but when I did this village caught from 150 to 200 pups. So much depends on the weather that sometimes more and sometimes less are caught. In recent years guns and occasionally fishing nets are used with better results.

RUTH BURDUKOFSKI. [In Russian.]

Subscribed and sworn to before me this 7 day of June, 1892.

[SEAL.]

C. L. HOOPER,

Notary Public, Dist. of Alaska.

Attested:

RUDOLPH URNMANN,

Interpreter.

Deposition of Paul Repin, sealer.

PELAGIC SEALING.

Personally appeared before me Paul Repin, who, being duly sworn, deposes and says: I am 57 years of age; was born in Unalaska, where I have lived all my life; and am a native of Alaska. For many years I was a sea-otter and seal hunter, and for eight years in my younger days I made trips with the priest to Unga and other villages in the vicinity.

I have heard the statement made by Ruth Burdukofski, and from my knowledge of the facts know the same to be true.

His
PAUL x REPIN.
mark.

Witness:

J. STANLEY BROWN.

Attested:

RUDOLPH URNMANN,
Interpreter.

Subscribed and sworn to before me this 7th day of June, 1892.

[SEAL.]

C. L. HOOPER,
Notary Public, District of Alaska.

Deposition of Charles J. Hague, master mariner.

HABITS—PELAGIC SEALING.

ILIULIUK, UNALASKA ISLAND, ALEUTIAN ISLANDS,
Territory of Alaska, ss:

Charles J. Hague, a citizen of the United States of America, 53 years of age, being duly sworn, deposes and says: I reside at Alameda, Cal., and am a master mariner by occupation.

Experience.

I have been cruising steadily in Alaskan waters since the year 1878. I have sailed principally about various parts of the Aleutian Islands, as far west as Attu, to which island I have made about twenty trips from Unalaska, mostly in the spring and fall of the year. I do not remember ever having seen a fur-seal in the water between the Four Mountain Islands and Attu Island. The main body of the fur-seal herd bound to and from the Pribilof Islands

Migration.

move through the passes of the Fox Islands, Unimak on the east and the West Pass of Unmak on the west, being the limits between which they enter Bering Sea in any number. I do not know through what passes the different categories move, or the times of their movements. Rarely see fur-seals in the Pacific between San Francisco and the immediate vicinity of the passes. I think the fur-seal herds of the Commander and Pribilof islands are separate bodies of the fur-seal species, whose numbers do not mingle with each other. In the latter part of September of 1867, in the brig *Kentucky*, making passage between Petropaulowski and Kodiak I observed the Commander Islands seal herd on its way from the rookeries. They moved in a compact mass or school, after the manner of herring, and were making a westerly course towards the Kurile Islands.

Herds of Commander and Pribilof Islands do not mingle.

The seals which I have observed on their way to the Pribilof Islands do not move in large schools; they straggle along a few at a time in a sort of a stream, and are often seen sleeping in the water and playing. There are no fur-seal rookeries in the Aleutian Islands that I know of; in fact, I have never heard of any in the region besides those on the several well-known Seal Islands of Bering Sea. I believe there has been a great

No rookeries on Aleutian Islands.

Decrease.

decrease in the numbers of the fur-seal species; I do not believe there are now one-tenth as many fur-seals frequenting the Pribilof Islands as there were ten years ago. Nine or ten years ago, when lying off the Pribilof Islands in the fall, the young seals used to play in the water about the vessel in large numbers; in going to the westward in the month of May many seals were always to be seen between Unalaska and the Four Mountain Islands. In mid-summer, when making passages between Unalaska and the Pribilof

Seals feeding.

Islands, used to see large bodies of fur-seals feeding—they were invariably to be met with most numerous about 60 miles north-northwest true from Unalaska, and from there up to the islands a continuous stream of seals was to be seen moving to and from the feeding grounds.

When last I visited the rookeries three years ago, in 1889, I noticed a great shrinkage in the area covered by seals on the rookeries. While at anchor off St. Paul Island the pups playing about the vessel were very few, and while making a passage between Unalaska and the Pribilof Islands, during the breeding season, did not see a dozen in the open sea during the whole trip, where formerly I met hundreds. In going from Unalaska to Atka and returning during the last of May

Decrease due to pelagic sealing.

and the first part of June of this year (1892), I did not see a single fur-seal in the water. I attribute this great decrease to the indiscriminate slaughter of the species by pelagic sealers, and their wasteful methods of securing skins. I think that a close season at the Pribilof Islands for several years and the absolute suppression of pelagic sealing will cause the fur-seal species, or such of them as frequent the Pribilof Islands, to increase, though slowly, to their former numbers.

Close season for several years.

Absolute prohibition necessary.

CHAS. J. HAGUE.

Sworn and subscribed to before me this 13th day of June, 1892.

Z. L. TANNER,

Lieutenant-Commander, U. S. Navy.

Deposition of Ivan Krukoff, Aleut Sealer.

PELAGIC SEALING.

Personally appeared before me Ivan Krukoff, who, being duly sworn, deposes and says: I am 46 years of age, a native of the Aleutian Islands, and have lived in the village of Makushin all my life. At this

Indian sealing.

village we see no seals in the spring, but late in the fall, in late October, we go out in our bidarkas and catch with spears and sometimes guns the young pups which were born on the seal islands in the summer and are now going south. We do not use nets. There are no old seals

Migration.

with these pups; they are the young pups that are driven in by the strong north winds. We go out as far as the cape at the mouth of Makushin Bay and find the pups here and there; they are never together in great numbers. I never knew any old seals of any kind to haul out on the shores in this vicinity, ^{No old seals on Aleutian Islands.} nor have I ever heard any old men say they ever saw any old seals haul out.

It is harder to find the pups now than it was a few years ago. There does not seem to be so many of them as there ^{Decrease of pups.} used to be.

IVAN KRUKOFF. [In Russian.]

Attested:

INNOKENTI SHAYASHNIKOFF,
Interpreter.

Subscribed and sworn to before me this 8th day of June, 1892.

J. STANLEY BROWN,
United States Treasury Agent.

Deposition of S. Melavidoff and David Salamatoff, native residents of Unalaska.

IIABITS.

Personally appeared before me S. Melavidoff and David Salamatoff, who, being duly sworn, depose and say: We are natives of Alaska, are now and have been for the past twenty years residents of Unalaska.

The only seals taken by the natives of this place are the this season's pups that go through the passes during the period between the last of October and the last of November. ^{Experience.}

The northerly winds bring them in the direction of this harbor, and the natives go out in their bidarkas and spear and shoot them for food. Sometimes we find old male seals with them, but we dare not attack them in the bidarka. The mothers are not with them, and there are usually no seals of older age with them. They are the weaker of the pups, the stronger ones going on through the passes. No old seals haul out on shore here. ^{The only seals taken by natives of Unalaska are pups for food. Seals do not haul up in vicinity.}

I, S. Melavidoff, am 53 years of age. I, David Salamatoff, am 67 years of age.

S. MELAVIDOFF.
D. SALAMATOFF.

Attested:

RUDOLPH URNMANN,
Interpreter.

Subscribed and sworn to before me this 7th day of June, 1892.

[SEAL.]

C. L. HOOPER,
Notary Public, Dist. of Alaska.

Deposition of Arthur Newman, agent of lessees on Aleutian Islands.

HABITS.

ILIULIUK, UNALASKA ISLAND, ALEUTIAN ISLANDS,
Territory of Alaska, ss:

Arthur Newman, a citizen of the United States of America, 51 years of age; being duly sworn, deposes and says: I have lived in the Aleutian Islands the greater part of the time since 1869. For eight years I was agent for the Alaska Commercial Company at Chernofsky, and for ten years I acted in the same capacity at Umnak; for three years I was an officer of a supply tender making trips between San Francisco and Unalaska. I have made four trips to the westward as far as Attu, at different seasons of the year. I observed that the fur-seals usually commence to move through both the East and West Passes of Umnak into Bering Sea about the last of May, the majority enter in the latter part of June, while very few are to be seen moving north after the middle of July. The seals going north through these passes are mostly females and young bachelors; very few bulls go that way. The natives first reported fur-seals moving south through the same passes about the 1st of October. The majority pass into the Pacific between the 20th of October and the 1st of November, while the last ones are usually observed about the 25th of November. The seals moving south are gray pups, and medium-sized seals, the former in the majority. I can not distinguish the sex of fur-seals

Experience.
Cannot distinguish sex in water.

Migration.
in the water.

Seals leaving the Bering Sea via the western passes are generally seen moving steadily towards the south during northerly and northwesterly weather, but very rarely before a northeasterly wind. I think a somewhat larger portion of the seal herd moves through the East Pass of Umnak, than through the West Pass. The proportions of pups, etc., are about the same, however. I have seen sick and wounded fur-seals hauled out on rocks about the passes to rest and die, but know of no place where they habitually land to breed or rest in the several well-known seal islands of Bering Sea. I have seen seals sleeping on kelp and feeding about it, but have never seen them copulate anywhere except on a rookery. I do not believe that pups born on kelp could be properly nursed and brought up. I do believe that it is necessary to their successful existence that they be born on land, since they can not swim at birth. In the winter of 1871-'72, I made one of an expedition from San Francisco to the Antarctic fur-seal rookeries of Staten Land, and spent altogether, about a month's time on the rookeries during the months of November and December, 1871, and January, 1872, which is their breeding season. I there observed that a pup is fully a month old before venturing in the water at all, and I do not believe they are expert until between three and four months of age. While sailing between San Francisco and Unalaska I never saw a fur-seal in the water between sight of the highland of the Aleutians and San Francisco, but close to the Fox Islands generally fell in with plenty of them. I never saw a fur-seal in the water between Amukta Pass and Attu Island. I do not think the fur-seal herds of the Commander and Pribilof Islands ever get close enough to each other in these latitudes to mingle. I believe there has been a great

Do not land or breed except on Pribilof Islands.

Do not land or breed except on Pribilof Islands.

Habits.

Herds of Commander and Pribilof islands do not mingle.

decrease in the numbers of the fur-seals frequenting the Pribilof Islands. Years ago I used to see a great number of them in Bering Sea while making passage between Unalaska and the Pribilof Islands during the breeding season, but now only a few are seen, and these are observed much nearer to the islands than was formerly the case. I believe this decrease is owing to the large number of vessels engaged in hunting the fur-seal at sea and the indiscriminate methods employed by these sealing vessels in taking skins. If this pursuit were stopped altogether, I think the fur-seal species would increase again, although very slowly. The native hunters living at the settlements of Chernofsky and Umnak used to hunt the fur-seals in the fall each year for food, laying the flesh away for winter use. While at Chernofsky, I collected annually from the natives about 750 skins of fur-seals killed in the waters adjacent, and at Umnak, I collected on an average about 150 skins. These were mostly the skins of gray pups taken during the month of October, they being most highly prized by the natives as an article of food. Fur-seals are very little known at Atka and Attu, and it is my belief that the farthest west the main herd moves to and from Bering Sea is through the Four Mountain Islands Pass.

Decrease.

Indiscriminate killing.

Protection.

Pelagic sealing.

Main herd goes no farther west than through Four Mountain Pass.

ARTHUR NEWMAN.

Subscribed and sworn to before me this 13th day of June, 1892.

Z. L. TANNER,

*Lieut.-Commander, U. S. Navy.**Deposition of Charles T. Wagner, agent of Alaska Commercial Company.*

HABITS—PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss :

Charles T. Wagner, being duly sworn, deposes and says: I am a citizen of the United States, over 21 years of age, a resident of Sanak in the Aleutian group, and am employed by the Alaska Commercial Company as their agent in the purchase of furs and in supplying the natives with food and clothing.

I was first employed by the Government as deputy collector of customs at Unalaska for nearly three years, from 1871 to 1873, since which time I have been in the employ of the Company.

Experience.

During the twenty years which I have been stationed in various trading posts in the Bering Sea I became conversant with the general question pertaining to the fur-sealing industry in those waters, having bought sealskins both from natives and from hunting vessels. I have observed that by far the larger portion of skins purchased by me were taken from female seals. Not less than eight out of every ten were from cows with pup or in milk. I have often bought skins taken from cow seals where the young pup had been cut out of the mother and was kept alive for several days, until it became such a nuisance from constant yelping that I

Mostly pregnant females taken.

directed it to be killed, as it would not eat and would eventually die of starvation.

The larger portion of skins of seals purchased by me at stations in the Aleutian Islands were caught about the islands on their way north to their breeding grounds at St. Paul and St. George. I have learned from personal observation and from conversations with parties that they lose in killed and wounded at least two out of every three obtained. Other sealers have told me that their loss is much greater.

From my personal observation I know there has been a very great decrease within the past four or five years in the number of seals found in the North Pacific and Bering Seas. I am sure the decrease is caused by the killing of female seals in the open sea, and that if their destruction by the indiscriminate killing in the open sea is permitted to continue it will only be a very short time until the herd will be entirely destroyed.

I never have known, and do not believe that the seals at the Pribilof Islands haul up on land anywhere except on those islands.

I never have been employed by the present lessees of the seal islands.
C. T. WAGNER.

Subscribed and sworn to before me this 5th day of April, A. D. 1892.
[SEAL.] CLEMENT BENNETT,
Notary Public.

Deposition of Kassian Gorloi, Indian hunter of sea otters and foxes.

HABITS.

ATKA, NAZAN BAY, ATKA ISLAND, ALEUTIAN CHAIN,
Territory of Alaska, ss:

Kassian Gorloi, a native and resident of Atka, 56 years of age, being duly sworn, deposes and says: I am Chief of the native settlement at Atka, and have lived on this and neighboring islands all my life. I am a hunter of sea-otter and foxes by occupation, and have never hunted the fur-seal as a regular thing. In the months of October and November, after a blow from the northeast, a few scattering gray-pups are occasionally seen in groups of two and three. They pass from Bering Sea into the Pacific, and do not linger about this region. I have killed a few of these pups in the passes of Atka and Amliia Islands for food, and did not find them difficult to approach in bidarka. I killed ten in one season, about the year 1868, using a spear, and never lost one struck, although they do not float long after being killed, usually less than five minutes. We find but few nowadays, and I think there are less fur-seals than there were formerly. I do not know the reason for it. I have never seen an old bull or a full-grown fur-seal about these islands. I do not know through what passes the seal herds move to and from the Bering Sea, nor the time. Schooners have occasionally been seen about this region in the spring, but they

never stayed long, and I do not think they got any skins. I have never known of fur-seals hauling out on the shores or floating kelp patches to rest or breed in this region. I have never seen a mother seal or a black pup in this region.

Do not haul up on Aleutian Islands.

his
KASSIAN X GORLOI.
mark.

Subscribed and sworn to before me this 25th day of May, 1892.

Z. L. TANNER,
Lieut.-Commander, U. S. Navy.

I, Peter Shaishnikoff, hereby swear that I have faithfully and truly interpreted the foregoing affidavit of Kassian Gorloi.

PETER SHAISHNIKOFF.

Subscribed and sworn to before me this 7th day of June, 1892.

Z. L. TANNER,
Lieut.-Commander, U. S. Navy.

Deposition of Pud Zaotchnoi, Second Chief of natives of Atka Island, and hunter.

HABITS.

ATKA, NAZAN BAY, ATKA ISLAND, ALEUTIAN CHAIN,
Territory of Alaska, ss:

Pud Zaotchnoi, a native of Amlia Island, of the Aleutian Chain, 40 years of age, being duly sworn, deposes and says: I am Second Chief of the natives at the settlement of Atka, Atka Island, Alaska, and am a hunter of fur-bearing animals, principally the sea-otter and fox; I have never hunted the fur-seal. The fur-seal is only rarely seen about this region, scattering ones being seen occasionally during the months of September, October, and November, traveling from the northward to the southward, through the passes between Atka and Amlia Islands. Those seen are always gray pups, and usually appear after a blow from the northeast. The most I ever saw in any one year was about a dozen, but never more than two or three at a time. I have met them in the passes while hunting in a bidarka. I have never known them to rest on the shores or on patches of floating kelp in this region. I have never seen large bulls or full-grown fur-seals in this region. I do not know through what passes of the Aleutian Islands the fur-seal herds move into Bering Sea, nor at what time they do so. I have seen so few fur-seals, and never any but a few scattering gray pups, that I am unable to form any ideas regarding the decrease of the fur-seal species.

Experience.

Fur-seal rarely seen in vicinity.

Maximum seen in any one year.

Do not haul up on shore or on kelp.

Ignorant of movements.

his
PUD X ZAOTCHNOI.
mark

Subscribed and sworn to before me this 25th day of May, 1892.

Z. L. TANNER,
Lieut.-Commander, U. S. Navy.

I, Peter Shaishnikoff, hereby swear that I have faithfully and truly interpreted the foregoing affidavit of Pud Zaotchnoi.

PETER SHAISHNIKOFF,
Interpreter.

Subscribed and sworn to before me this 7th day of June, 1892.

Z. L. TANNER,
Lieut.-Commander, U. S. Navy.

Deposition of Samuel Kahoorof, hunter.

HABITS.

ATTU, CHICHAGOF HARBOR, ATTU ISLAND, ALEUTIAN CHAIN,
Territory of Alaska, ss:

Samuel Kahoorof, a native of Attu Island, 52 years of age, being duly sworn, deposes and says: I am a hunter of the sea-otter and blue-fox, and have lived in this vicinity all my life. Have

Experience.

never hunted the fur-seal. Our hunting grounds are about Attu, Agattu, and the Semichi Islands. Have seen only three fur-seals in this region in twenty years; saw them in May, 1890, traveling along the north side of Attu Island, about 5 miles off shore, and making a northwesterly course. They were young males,

Fur-seals do not visit Attu Island.

I think. Fur-seals do not regularly visit these islands now, but about twenty-five or thirty years ago I used to see small squads of large seals during the month of June feeding and sleeping about the kelp patches off the eastern shores of Attu and Agattu

Migration.

Islands. They came from the southward, and traveled in a northwesterly direction. Never saw any fur-seals east of the Semichi Islands, and do not think those of the Commander Islands herd go farther to the eastward than that.

Decrease.

They decreased in numbers gradually, and during the last twenty years have only seen the three above mentioned. Have never seen a nursing or mother cow or a black or gray pup in this region, and do not think they ever visit it.

Do not know of any rookeries or places where fur-seals regularly haul out on the land or kelp to breed in the Aleutian Islands,

Do not haul up on Aleutian Islands.

and do not think there is such a place. Do not know where the old bulls spend the winter, and do not know the routes the fur-seal herds take in their migrations to and from the Commander and Pribilof Islands; neither do I think

Herds do not mix.

the two herds come near enough together in these latitudes to mix. Do not know why the numbers of the fur-seals seen about these islands are now less than in former years. Sealing schooners do not frequent these islands; last August three of them came in here for water, and then went south in a day or two. They said they had been to the Commander Islands.

his
SAMUEL X KAHOROF.
mark.

Subscribed and sworn to before me this 28th day of May, 1892.

Z. L. TANNER,
Lieut.-Commander, U. S. Navy.

I, Peter Shaisnikoff, hereby swear that I have faithfully and truly interpreted the foregoing affidavit of Samuel Kahoorof.

PETER SHASHNIKOFF,
Interpreter.

Subscribed and sworn to before me this 7th day of June, 1892.

Z. L. TANNER,
Lieut.-Commander, U. S. Navy.

Deposition of Eliah Prokopief, native hunter of otters and foxes.

HABITS.

TERRITORY OF ALASKA,

Attu, Chichagof Harbor, Attu Island, Aleutian Chain, ss:

Eliah Prokopief, a native of Amchitka Island of the Aleutian Chain, 52 years of age, being duly sworn, deposes and says:

Am a hunter of the sea otter and blue fox and have lived in this vicinity all my life. I hunt about Attu, Agattu, and the Semichi Islands. Have never hunted nor killed a fur seal. Fur seals do not regularly frequent these regions, and I have seen none but a few scattering ones in twenty years.

Experience.

Thirty years ago, when the Russians controlled these islands, I used to see a few medium sized fur-seals, one or two at a time in the summer, generally in June, traveling to the northwest, and bound, I think, for the Commander Islands. The farthest east I have ever observed them was about 30 miles east of the Semichi Islands; do not think these going to the Commander Islands ever go farther east than that. Those most seen in former times were generally feeding and sleeping about the kelp patches between Attu and Agattu, and the Semichi Islands, where the mackerel abounds. They decreased in numbers constantly, and now are only seen on very rare occasions.

Have seen but few fur seals in vicinity.

Have seen but half a dozen in the last twenty years; they were large seals, bulls I judged from their size, traveling to the northwest, about 30 miles east of the Semichi Islands. This was in May, 1888.

Migration of Commander Islands seals.

Have never seen any pups, black or gray, or nursing female fur-seals in this region, and do not think they ever visit it. Do not know of any rookeries in the Aleutian Islands, nor any places where fur-seals haul out regularly on the land or kelp to breed or rest except the Russian and American seal islands of Bering Sea. Do not know where the old bull fur seals spend the winter, nor what route the fur-seal herds take to and from the Commander and Pribilof islands, nor at what times the herds pass to and fro. Am quite sure the herds do not come near enough together to mingle in these regions. Have never known of fur-seals being seen between Amchitka and a point 30 miles east of the Semichi Islands. Do not think there are now as many fur-seals as there were thirty years ago, but do not know the cause of the decrease. Sealing schooners do not regularly visit these islands. Last August (1891) three of them came in here to get water, but only stayed a few hours each; they had been to the Commander Islands and were going south.

Decrease.

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Norookery on Aleutian Islands.

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Herds do not mingle.

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his
ELIAH x PROKOPIEF.
mark.

Subscribed and sworn to before me this 28th day of May, 1892.

Z. L. TANNER,
Lieutenant-Commander, U. S. Navy

I, Peter Shaishnikoff, hereby swear that I have faithfully and truly interpreted the foregoing affidavit of Eliah Prokopief.

PETER SHAISHNIKOFF,
Interpreter.

Subscribed and sworn to before me this 7th day of June, 1892.

Z. L. TANNER,
Lieutenant-Commander, U. S. Navy.

Deposition of Filaret Prokopief, agent and storekeeper of Alaska Commercial Company, on Attu Island, and fur-hunter.

HABITS.

TERRITORY OF ALASKA,

Attu, Chichagof Harbor, Attu Island, Aleutian Chain, ss:

<p>Experience.</p> <p>two years.</p> <p>No seals in vicinity.</p> <p>No rookery on Aleutian Islands.</p> <p>Migration of Pribilof and Commander herds.</p>	<p>Filaret Prokopief, a native of Attu Island, Alaska, 23 years of age, being duly sworn, deposes and says: I am the agent and storekeeper at this place for the Alaska Commercial Company, which position I have held for the last two years. My occupation is that of a hunter, principally for the sea-otter and fox; never for the fur-seal. I used to hunt, before I was made agent, about the Attu, Agattu, and the Semichi Islands. I never saw but one fur-seal in the water. It was a young male which was killed in this bay in September of 1884. I do not know of any fur-seal rookery or other places where fur-seals haulout on the land to breed or rest in the Aleutian Islands, nor where the old bull fur-seals spend the winter. I do not know at what times or by what routes the seal herds move to and from the Bering Sea; have heard old hunters say the Commander Islands herd use to pass close to the western shores of these islands on their way north.</p>
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FILARET PROKOPIEF.

Subscribed and sworn to before me this 28th day of May, 1892.

Z. L. TANNER,
Lieutenant-Commander, U. S. Navy.

I, Peter Shaishnikoff, hereby swear that I have faithfully and truly interpreted the foregoing affidavit of Filaret Propkopief.

PETER SHAISHNIKOFF,
Interpreter.

Subscribed and sworn to before me this 7th day of June, 1892.

Z. L. TANNER,
Lieutenant-Commander, U. S. Navy.

TESTIMONY TAKEN ON OR NEAR KADIAK ISLAND.

Deposition of Isaac M. Lenard, sea-otter hunter, residing at Belkofsky, Alaska.

PELAGIC SEALING.

Isaac Lenard, being duly sworn, deposes and saith: I reside at Belkofsky, Alaska Territory. I have been a sea-otter hunter for forty years, and have occasionally raided the Russian seal islands. When on a raid we would watch for a favorable opportunity to make a landing, and then kill male and female fur-seals indiscriminately. Probably for every 500 marketable skins secured, double that number of pups were destroyed. I think that a close season between the months of February and November in the North Pacific Ocean and Bering Sea should be established in order to prevent the extermination of the fur-seal species.

Experience.
Raids on Russian islands.
Destruction of pups.
Protection by a close season.

I. M. LENARD.

Subscribed and sworn to before me this 13th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of Andrew Anderson, sea-otter hunter, residing on Kadiak Island.

PELAGIC SEALING.

Andrew Anderson, being duly sworn, deposes and saith: I reside at St. Paul, Kadiak Island, Alaska Territory. I am a sea-otter hunter by occupation, and am now master of a hunting schooner. While engaged in hunting during the past eighteen years, I have killed more or less fur-seals. I usually first fall in with fur-seals off Cook's Inlet about the first of June. I have noticed a perceptible and gradual decrease in seal life for the past few years and attribute it to the large number of vessels engaged in hunting them at sea. I have never seen a fur-seal pup of the same season's birth in the water at sea; neither have I any knowledge of any being born elsewhere than on a regular rookery.

Experience.
Appear off Cook's Inlet about June 1st.
Seals: Decrease of.
Pups not in water during season of birth.
Pups born only on rookeries of Pribilof Islands.

I have no knowledge of the existence of any rookeries, or any place where fur-seals haul up on the land, in the northern hemisphere,

other than those fur-seal rookeries on the several seal islands of Bering Sea.

My experience in seal hunting is that a much greater number of females are taken at sea than males of the fur-seal species; and of the females, the majority are pregnant or milking cows. I believe that in order to preserve fur-seal life, pelagic hunting should be stopped absolutely.

his
ANDREW + ANDERSON.
mark.

Subscribed and sworn to before me this 13th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of Charles Avery, sealer (master), residing on Kadiak Island.

PELAGIC SEALING.

<p>Experience.</p> <p>Seals first appear off Yakutat about April 1st.</p> <p>Ninety per cent of those taken are females; majority pregnant.</p> <p>Pelagic birth impossible.</p> <p>Rookeries only on Pribilof Islands.</p>	<p>Charles Avery, a resident of St. Paul, Kodiak, Alaska, being duly sworn, deposed and said: I am captain of a sealing schooner; have been six years in Alaska; have been hunting seals three years. I start the season off Yakutat. The first seals are seen about April first. We follow the seals back and forth, as schools come along. We use rifles and shotguns. Of those killed, the number saved varies with the skill of the hunters. Last year we lost very few. About 90 per cent of those saved are females, and the greater number with young. The females sink almost immediately when shot, if heavy with young. It is not possible to distinguish sex when seals are swimming, and killing is indiscriminate. I do not think that seals can be born in the water and live. I do not know of any rookery except those on the seal islands of the Bering Sea.</p>
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CHARLES AVERY.

Subscribed and sworn to before me this 13th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of Vassili Chichinoff et al., native fur hunters.

PELAGIC SEALING.

<p>Experience.</p>	<p>Vassili Chichinoff, Timothy Demidoff, Simeon Reisoﬀ, Alamphy Pestikoff, Prokopy Nankook, Feodore Anutak, Evan Grinoff, and Feodore Grinoff, being duly sworn, depose and say: We are residents of St. Paul, Kadiak Island, Alaska, and are natives of Alaska. Our occupation is hunting for fur-bearing animals, principally the sea-otter.</p>
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We all have an intimate knowledge of the coast of Alaska from Kadiak to Unalaska, and know of no fur-seal rookeries other than those on the seal islands of Bering Sea. We have never seen fur-seal pups of the same season's birth in the water at sea, and do not believe it possible for them to be successfully reared except on a rookery. There is no way of distinguishing the sex of fur-seals (except large bulls), in the water at sea, nor do hunters ever make any effort to do so, but on the contrary kill all seals they can indiscriminately.

Rookeries only on Pribilof Islands.

Pups can be reared only on a rookery.

Indiscriminate killing.

Fur seals have decreased very rapidly during the last five years, and we believe it is due to the large number of vessels engaged in hunting them at sea.

Decrease.

Knowing that pelagic hunting is the cause of the decrease in fur-seal life, we are in favor of its entire and absolute suppression and prohibition in order that said fur-seal life may be saved from extermination.

Prohibition necessary.

VASSILI CHICHINOFF. [In Russian].
TIMOTHY DEMIDOFF. [In Russian].
SIMEON RIESOFF (his x mark).
ALAMPHY PESTIKOFF (his x mark).
PROKOPY NANKOOK (his x mark).
FEODORE ANUTAK (his x mark).
EVAN GRINOFF. [In Russian].
FEODORE GRINOFF (his x mark).

Subscribed and sworn to before me this 13th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of Julius Christiansen, sea-otter hunter (master), residing on Kadiak Island.

PELAGIC SEALING.

Julius Christiansen, being duly sworn, deposes and saith: I reside at St. Pauls, Kadiak Island, Alaska, and have lived in the Territory for the past ten years. I am an otter hunter by occupation, and the owner of a schooner engaged in that pursuit.

Experience.

Last year (1891) I hunted for seals at sea. We first met them in the region of Prince William Sound, and followed them to the vicinity of the Barren Islands off Cooks Inlet. I used a shotgun almost exclusively last season, and lost about one-third of all fur-seals shot. Of those secured, the larger part by far were females, and the majority of these were pregnant cows. It is impossible to distinguish the sex of the fur seal in the water at sea, and no effort was made to do so. We killed all fur-seals indiscriminately. Fur-seals when shot dead, sink almost immediately. I never knew of fur-seal pups being born anywhere except on a rookery, and do not believe they can be successfully raised under other conditions. Neither have I any knowledge of a fur-seal rookery existing anywhere except on the seal islands of Bering Sea.

Loss of life. Majority of those secured pregnant females.

Indiscriminate.

Born only on a rookery.

Rookery only on Pribilof Islands.

J. CHRISTIANSEN.

Subscribed and sworn to before me this 13th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of F. F. Feeny, owner and master of hunting vessel, residing on Kadiak Island.

PELAGIC SEALING.

F. F. Feeny, a resident of Long Island, St. Paul Harbor, Kadiak, Alaska, being duly sworn, saith: I have resided in Alaska over twenty years. I am owner and captain of a hunting and trading schooner. I have been along the coast from Unimak Pass to Sitka. I have never hunted fur-seal regularly, but have killed them when I came across them. Of seals killed, about four out of five are saved. Of those taken, probably four out of five are females. Most all of the females taken are with young, or mothers.

Experience. One-fifth lost. Eighty per cent of of those taken are females, in pup or milking.

There is no way that I know of to distinguish the sex of a seal when it is in the water. No attempt is made to discriminate the sex so as to kill only males. The seals have most decidedly decreased in number, caused by the continual hunting and killing in the open sea. I have never seen nor heard of a seal born at sea nor on kelp.

Indiscriminate killing. Decrease. No births at sea or on kelp.

Rookeries only on Pribilof Islands. I do not know of any rookery other than those of the seal islands in Bering Sea. In my opinion, if the seals are not harassed and hunted at sea they will increase, and to preserve them from extermination pelagic hunting must be stopped.

Prohibition necessary.

F. F. FEENY.

Subscribed and sworn to before me this 13th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of William Foster, seal hunter, residing on Kadiak Island.

PELAGIC SEALING.

William Foster, a resident of St. Paul, Kadiak, Alaska, being duly sworn, deposed and said: I am a hunter. Have been in Alaska eighteen years. Have been from Icy Bay to Unalaska. I have never hunted fur-seal until last year. From my own experience, and what I have been told by other hunters, about one-half of the seals killed sink. The seals appear off Cook's Inlet about May 1st. They appear off Unga about the 1st of June.

Experience. Waste of life. A seal if shot dead will sink almost immediately. In my opinion, seals and all other fur-bearing animals are decreasing and the cause is pelagic hunting. I do not know of any rookery outside of the seal islands of the Bering Sea, nor have I heard of any other. I have never seen pups born on kelp beds, and I am certain they can not

Appear off Cook's Inlet, May 1st and off Unga, June 1st.

Decrease. Rookeries only on Pribilof Island. None born on kelp.

live and thrive on kelp beds. In my opinion, in order to preserve the fur-seals, all pelagic sealing should be stopped.

Prohibition necessary.

WM. FOSTER.

Subscribed and sworn to before me this 13th day of April 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of Edward Nighl Lawson, sealer (hunter), residing on Kadiak Island.

PELAGIC SEALING.

Edward Nighl Lawson, being duly sworn, deposes and saith: I reside at St. Pauls, Kadiak Island, Alaska, and have lived in the Territory for the past twelve years. I am a sea-otter hunter by occupation and am well acquainted with the Northwest coast from San Francisco to Unalaska.

Experience.

In the years 1878 and 1879 I was employed as a fur-seal hunter on board the schooners *Favorite* and *Onward*, respectively, both of Victoria, British Columbia; and in the years 1884 and 1885 I was engaged in the same capacity on the schooners *Teresa* and *San Diego*, respectively, both hailing from San Francisco, Cal.

Favorite, 1878.
Onward, 1879.

Teresa, 1884.
San Diego, 1885.

In the Victoria vessels we started in to hunt fur-seals off Cape Flattery in February both years, following the seals along the coast as far as the Fair Weather ground. In the American vessels hunting began at Sand Point in June, and, working on with the main herd from that vicinity, we followed the seals through Unimak Pass into Bering Sea. Breech-loading firearms were used exclusively. My own success as a hunter was a catch of 80 per cent of all fur seals killed. I have killed females in milk in Unimak Pass, and even out in the Pacific Ocean, 200 miles from the land. We can not distinguish between the sexes of fur-seals in the water at sea, nor do we contrary, everything in sight is taken if possible, except large bulls, whose skins are worthless. To secure a fur-seal it is best to shoot it through the body, as it will float longer than if shot through the head. Male fur-seals sink almost instantly when shot dead, while a pregnant female will float for several minutes. In order to prevent the extermination of the fur-seal species I am of the opinion that a close season in the North Pacific Ocean and in Bering Sea should be established and enforced from April 1 to November 1 of each year. I never saw a pup seal on beds of kelp, and I do not believe it possible for them to be raised there. I know of no rookeries in the North Pacific other than those on the seal islands of Bering Sea, and have never heard of any others from a reliable source.

Began hunting off Cape Flattery in February

And at Sand Point in June.

Caught 80 per cent of those killed.
Nursing females killed.

try to. On the

Indiscriminate.

Seals sinking.

Protection by a close season.

Pelagic birth impossible.
Rookeries only on Pribilof Islands.

EDWARD NIGHL LAWSON.

Subscribed and sworn to before me this 13th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of William Rohde, hunter (master), residing on Kodiak Island.

HABITS.

William Rohde, being duly sworn, deposes and says: I am a resident of St. Paul, Kodiak, Alaska, and am captain of a hunting and trading schooner. I have resided in Alaska six years, and in all that time followed the calling of a hunter.

Experience.
Appear off Cooks Inlet in May.

Pelagic birth impossible.

Haul up only on the islands.

Beginning at Cooks Inlet, in the spring, we find seals off the inlet in May traveling westward along the coast towards the Bering Sea. I never hunted fur-seals, but I have a knowledge of their habits and movements, and I never saw a pup seal in the water, nor on a bed of kelp; and I know a pup seal could not live and thrive on a kelp bed. I know of no place where fur-seals haul out on land except the seal islands of Bering Sea, nor have I ever heard of such a place.

W. ROHDE.

Subscribed and sworn to before me this 13th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of Peter Titchenoff, storekeeper for Alaska Commercial Company, residing on Kodiak Island.

PELAGIC SEALING.

Peter Titchenoff, a resident of St. Paul, Kodiak, Alaska, being duly sworn, deposed and said: I am a native of Alaska. Am 57 years old. I am storekeeper for the Alaska Commercial Co. I am acquainted with the coast from Sitka to Kodiak. I do not know of any rookery along the coast nor have I ever heard of any.

Experience.

No knowledge of rookeries along coast.

PETER TITCHENOFF.

Subscribed and sworn to before me this 13th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of John C. Tolman, United States deputy collector on Kodiak Island.

PELAGIC SEALING.

John C. Tolman, being duly sworn, deposes and says: I am U. S. deputy collector. Resided nearly two years at Kodiak in capacity of deputy collector. The seal are taken off Kodiak Island about the 1st of June. The hunters use shot-guns and rifles exclusively for taking seal. I think that from what I have been able to learn, about half the seal shot are lost, the hunters being unable to secure them before they sink. From what I have been able to learn the majority of seals taken around Kodiak are females. Hunters use no discrimination in taking seal, but kill everything that pokes its head out of water near the boat. Sealers report that seals are not as plentiful as in former years. Scarcity of seal can be attributed to no other cause than pelagic hunt-

Experience.

Majority taken, pregnant females.
Indiscriminate killing.

Decrease.

ing and the indiscriminate shooting of seals in the open sea, both in the North Pacific and Bering Sea. I have never known any fur-seal to haul out on the coast of Alaska anywhere except on the Pribilof Islands.

No pelagic birth.

In my opinion, pelagic hunting should be stopped altogether in order to give the seal proper protection. I have resided in Wrangel the last year and a half. I have never seen a fur seal in any of the inland waters of Alaska, nor have I ever heard of any being in the inland waters.

Protection.

JOHN C. TOLMAN.

Subscribed and sworn to before me this 9th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Nicholas William Andersen, hunter, Prince William Sound to Sennak Islands.

HABITS.

Nicholas William Andersen, a resident of Afognak, being duly sworn, deposed and said: I have been in Alaska twenty years; I have been a hunter eighteen years; I have never hunted seals; I have been along the coast from Prince William Sound to Sennak Islands. Seals are first seen at Prince William Sound about May 1. I do not know, nor have I ever heard of any place where seals haul out or breed except the seal islands of the Bering Sea. I have never seen young seals born at sea, nor on kelp; nor do I believe they can live on kelp beds. If seals are shot dead they must be picked up at once or they will sink. For the preservation of seal life pelagic hunting should be stopped.

Experience.

Seals appear at Prince William Sound about May 1.

Pups born only on Pribilof Islands.

Pelagic birth impossible.

Prohibition necessary.

N. W. ANDERSEN.

Subscribed and sworn to before me this 13th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of Peter C. Muller, sealer (master), residing at Afognak.

HABITS.

I, Peter C. Muller, a resident of Afognak, being duly sworn, depose and say: That I have been in Alaska eight years. My occupation is hunter. I am captain of a hunting schooner and start the season off Cook's Inlet. The first seals are seen about May. I have never been hunting seal, and have no experience as to how many are saved; can not say whether the seals are increasing or decreasing in numbers. I have never known or heard of any place where seals haul out except seal island. I have never seen any pups born on kelp.

Appearance of seals off Cook's Inlet.

Seals haul up only on the islands, and not born on kelp.

PETER C. MULLER.

Subscribed and sworn to before me this 13th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

TESTIMONY TAKEN IN COOK'S INLET.

Deposition of Nicoli Apokchee, Peter Abankook, Stephan Langwalic, Iyfyim Monin, Denis Malzoff, Wasyryon Ofkew, Pavel Ofkew, and Pavel Ringchook, native fur hunters, residing at Fort Alexander, Cooks Inlet.

HABITS: DECREASE.

Nicoli Apokchee, Peter Abankook, Stephan Langwalic, Iyfyim Monin, Denis Malzoff, Wasyryon Ofkew, Pavel Ofkew, and Pavel Ringchook, being duly sworn, depose and say: That we are natives of Alaska, and reside

Experience. at the settlement known as Fort Alexander, on Cooks Inlet, Alaska Territory. We are, by occupation, hunters

of fur-bearing animals, excepting the fur-seal, and have been engaged in this pursuit the greater part of our lives, chiefly in this region. Fur-

Seals appear at
Cooks Inlet, May 1.

seals usually appear in the vicinity of Cooks Inlet early in the month of May. We are positive that the ma-

ajority of fur-seals do not enter Cooks Inlet, but pass across its entrance, following the coast of the mainland. We have

Rookeries. None in
vicinity.

occasionally observed a few seals which had strayed into the lower bays of the inlet, but they have only been seen at long and infrequent intervals. There are

no fur-seal rookeries in this part of Alaska.

Fur-seals were formerly observed in this neighborhood in great numbers, but of late years they have been constantly dimin-

Decrease. ishing, owing to the large number of sealing vessels engaged in killing them. We have never seen fur-seal pups about

Pups born only on
Pribilof Islands.

this part of the coast, and have no knowledge of any being born elsewhere than on the rookeries of the seal

islands in Bering Sea.

NICOLI APOKCHEE (his x mark).

PETER ABANKOOK (his x mark).

STEPHEN LANGWALIC (his x mark).

IYFYM MONIN (his x mark).

DENIS MALZOFF (his x mark).

WASYRYON OFKEW (his x mark).

PAVEL OFKEW (his x mark).

PAVEL RINGCHOOK (his x mark).

Subscribed and sworn to before me this 8th day of April, 1892.

JOSEPH MURRAY,

United States Treasury Agent.

Deposition of Maxwell Cohen, agent of Alaska Commercial Company, at Fort Alexander, Cook Inlet.

PELAGIC SEALING.

Maxwell Cohen, being duly sworn, deposes and saith: I reside at Fort Alexander, Cook's Inlet, Alaska Territory, and am by occupation the agent of the Alaska Commercial Company at this place, where I

have resided for the past twenty-two years, during which time it has been my duty to collect and otherwise handle furs and skins of all descriptions for the aforesaid company. I have observed that fur-seals first appear in the neighborhood of Cook's Inlet in small schools about the middle of April, coming from the southward, and increase in numbers until the latter part of May, traveling along the coast of the mainland from the eastward to the westward, but never entering Cook's Inlet above Anchor Point. They cross the entrance of the inlet and appear off the mainland again in the vicinity of Cape Douglass. Seal hunting commences about the region of Prince William Sound, Alaska Territory, early in April. Native hunters secure about one-third of all fur-seals killed at sea, while in my belief white hunters secure even a less number in proportion to those killed. In pelagic sealing no distinction is made by hunters as to the sex of the seals, the killing being done indiscriminately. It is not possible to distinguish between the male and female seals at sea even if a hunter so desired, and this is the reason why pelagic seal hunting will soon result in the total extermination of the species.

Experience.

Migration.

Appear at Cook Inlet about April 15.

Waste of life.

Indiscriminate.

I do not know of, and have never heard of, fur-seals landing at any point but the seal islands of Bering Sea.

Haul up only on Pribilof Islands.

I have noticed in recent years a great decrease in seal life, which I attribute to the fact that they have been so persistently pursued and systematically slaughtered by pelagic fur-seal hunters. After twenty-two years' experience in the fur business I have no hesitation in saying that if the fur-seal species is to be saved from extinction all pelagic seal hunting must cease, as it is absolutely necessary that the female fur-seal should be allowed access to a rookery, in order safely to deliver her young.

Decrease.

Alaska in the fur-seal species

Prohibition necessary.

M. COHEN.

Subscribed and sworn to before me this 8th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of Metry Monin, Nicoli Noojook, Stephan Tooehyk, Alexy Mahagak, Tekan Ivanoff, Alexander Kamlook, Peter Charashook, Stephan Apavelook, Alexy Abakee, Simeon Tanapee, Nicoli Kashagak, Tekan Kookew, Pavel Abanyngaw, and Peter Abangae, native fur-hunters at Fort Alexander, Cook Inlet.

HABITS.

Metry Monin, Nicoli Noojook, Stephan Tooehyk, Alexy Mahagak, Tekan Ivanoff, Alexander Kamlook, Peter Charashook, Stephan Apavelook, Alexy Abakee, Simeon Tanapee, Nicoli Kashagak, Tekan Kookew, Pavel Abanyngaw, and Peter Abangae, being duly sworn, depose and say: That we are natives of Alaska, and reside at the settlement of Fort Alexander, Cook's Inlet, Alaska Territory. We are, by occupation, hunters of fur animals, excepting the fur-seal, and have been engaged in this pursuit all our lives, chiefly in this neighborhood. The fur-seals usually appear about Cook's Inlet early in the month of May. They were formerly found in this region in great numbers,

Experience.

Seals appear on coast early in May.

but of late years they have been constantly diminishing, owing to the number of sealing vessels engaged in killing them. They do not enter Cook's Inlet, and there are no fur-seal rookeries in or about this part of Alaska. We have never seen fur-seal pups about this part of the coast, and have no knowledge of any being born outside of the rookeries on the seal islands of Bering Sea.

Decrease.

No rookeries on coast.

Born only on the islands.

METRY MONIN (his x mark).
 NICOLI NOOJOOK (his x mark).
 STEPHAN TOOCHYK (his x mark).
 ALEXY MAHAGAK (his x mark).
 TEKAN IVANHOFF (his x mark).
 ALEXANDER KAMLOOK (his x mark).
 PETER CHARASHOOK (his x mark).
 STEPHAN APAVELOOK (his x mark).
 ALEXY ABAKEE (his x mark).
 SIMEON TANAPEE (his x mark).
 NICOLI KASHAGAK (his x mark).
 TEKAN KOOKEW (his x mark).
 PAVEL ABANYNGAW (his x mark).
 PETER ABANGAC (his x mark).

Subscribed and sworn to before me this 8th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of Alexander Shyha, native fur-hunter at Fort Alexander, Cook Inlet.

PELAGIC SEALING.

Alexander Shyha, being duly sworn, deposes and saith: I am chief of the native settlement at Fort Alexander, Cook's Inlet, Alaska Territory, and am by occupation a hunter of all fur-bearing animals found in this vicinity excepting the fur-seal. I am a native of Alaska, and have resided all my life in the Territory. My occupation as a hunter has taken me along the coast and to the sea a distance of from 20 to 30 miles from the coast. In former years I found great numbers of fur-seals, but within the last few years I have observed that they have greatly diminished in numbers, so that now I do not find any off Cape Elizabeth and the adjacent region, where formerly they abounded. I have never seen or heard of any fur-seal rookery outside of Bering Sea. The fur-seals usually appear off this part of the coast about the month of May, but they do not enter Cook's Inlet. The disappearance of the fur seal is due to the killing by pelagic seal hunters, who appear in large numbers off this part of the coast, and the scarcity of the fur-seals is in proportion to the number of vessels engaged in seal hunting. I have never seen a fur-seal pup in this region, and know that they are not born outside the rookeries on the seal islands in the Bering Sea.

Experience.

Decrease.

Cape Elizabeth

No seal rookery outside of Bering Sea.

Decrease due to pelagic sealing.

Birth of pups.

ALEXANDER CALYNAC ^{his} X SHYHA.
 mark.

Subscribed and sworn to before me this 8th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of John Andrew Bradley, resident of Coal Point, Cook's Inlet.

PELAGIC SEALING.

John Andrew Bradley, being duly sworn, deposes and saith: I reside at Coal Point, on Kachekmak Bay, Cook's Inlet, Alaska, and have lived in this immediate vicinity Experience. for the past four years. I have traveled extensively along all the Northwest Coast during the past twenty-two years, and am well acquainted with it. I have had no personal practical experience in fur-seal hunting, but at the same time have a fair knowledge of the industry. It is not possible to make any distinction between males (other than large bulls) and females of the fur-seal species at sea, and there is none attempted. Full-powered bulls are, however, readily recognized at sea by their much larger size and darker fur; they are seldom taken, their pelts being comparatively valueless. The slaughter is therefore indiscriminate, the object being to secure all the skins possible. Fur-seals sink almost instantly after being struck, and unless picked up immediately can not be recovered. It is my honest belief that for every fur-seal skin obtained by pelagic sealers, at least five other seals' lives are taken I believe that the decrease in fur-seal life, which has been constant of late years, is due principally to the number of vessels engaged in hunting them at sea. I have never seen any but a few straggling seals in Cook's Inlet, and these only on rare occasions. I have never heard of any fur-seal rookeries in the North Pacific other than those on the seal islands of Bering Sea; and am positive that none exist in the vicinity of Cook's Inlet. A Captain Erratt, of San Francisco, last year induced parties of that place to fit out the schooner *Lily L.* on the face of his positive statement that a fur-seal rookery existed in the vicinity of Cook's Inlet. The enterprise was a total failure, however, no rookery being found, although a long and diligent search was made for it. It is my opinion that for the proper preservation of fur-seal life, all pelagic hunting Indiscriminate killing. should be stopped absolutely. Five-sixths lost. Decrease. No rookeries near Cook's Inlet. Prohibition necessary.

JOHN A. BRADLEY.

Subscribed and sworn to before me this 11th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of John Duff, agent of the Cooper Coal and Commercial Company, at Coal Point, Cook's Inlet.

HABITS.

John Duff, being duly sworn, deposes and saith: I reside at Coal Point, on Kachekmak Bay, Cook's inlet, Alaska, and have lived in the Territory for the last five years. I am the agent for the Cooper Coal and Commercial Company at this place, and have no personal knowledge of fur-seal life. At Afognak, where I was for two years engaged in fur trading, handling skins and furs of all descriptions, I observed that the fur-seals first appeared off that part of the coast in small numbers about the latter part of the month of April. Experience. First appear off Afognak Island about latter part of April.

They were most numerous towards the middle of June, passing in schools from the eastward to the westward, following general trend of the coast. I have traveled extensively through the Territory from Sitka to the Yukon River, and am positive that no fur-seal rookeries exist in the region other than those on the seal islands of Bering Sea. Neither have I ever heard any reliable information of the existence of other fur-seal rookeries.

Rookeries only on
Pribilof Islands.

JOHN DUFF.

Subscribed and sworn to before me this 11th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Frederick Skibby, miner, residing at Coal Point, Cook's Inlet.

HABITS.

Frederick Skibby, being duly sworn, deposes and saith: I reside at Coal Point, Kachemak Bay, Cook's Inlet, Alaska, and have lived in the Territory for the past seven months, exclusively at this place. I am a coal miner by occupation, and have no knowledge of fur-seal life. I have never seen a fur-seal in the waters of Cook's Inlet, and do not think any fur-seal rookery exists in this vicinity, as otherwise I believe I should have heard of it.

Experience.

No seals enter in-
land waters.

No rookery in vi-
cinity.

FRED SKIBBY.

Subscribed and sworn to before me this 11th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of James Wilson, agent for the Northern Packing Company at Fort Kenai, Cook's Inlet.

HABITS.

James Wilson, being duly sworn, deposes and saith: I reside at the settlement known as Fort Kenai, Cook's Inlet, Alaska, and have lived in the Territory for the past twenty-three years, chiefly in this region. I am at present agent for the Northern Packing Company at Fort Kenai, and have no practical knowledge of fur-seal life. There is a hair-seal rookery in the northern part of Cook's Inlet, on Kalgin Island, about latitude 60° 30' north. I have never known fur-seals to come up into Cook's Inlet, above Anchor Point, and am positive that no fur-seal rookery exists in the region; neither have I ever heard of fur-seal rookeries in the northern hemisphere other than those on the seal islands of Bering Sea.

Experience.

No fur seals in in-
land waters.

No rookery on coast.

JAMES WILSON.

Subscribed and sworn to before me this 13th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of Ivan Alexandroff and Feodor Bakastoff, priest and chief, respectively, of natives at Soldovoi, Cook's Inlet.

HABITS: DECREASE.

John Alexandroff and Feodor Barastoff, being duly sworn, depose and say: We are respectively the priest and chief of the natives at the settlement known as Soldovoi, on Cook's Inlet, Alaska, and have lived in the immediate vicinity all our lives. We are, by occupation, hunters of all fur-bearing animals, excepting the fur-seal. We have had no experience in hunting fur-seals, because we are informed that it is unlawful. Our occupation does not take us below the entrance to Cook's Inlet, in a line from Cape Elizabeth on the peninsula to Cape Douglass on the mainland opposite. In the latter part of June and the first part of July a few straggling fur-seals are seen about the entrance to the inlet, but the actual time of their appearance is uncertain. Fur-seals were formerly much more plentiful, however, but of late years are becoming constantly scarcer. This is, we think, owing to the number of vessels engaged in hunting them at sea. We have never heard of, and have no knowledge of, fur-seal pups being born elsewhere than on the rookeries of the seal islands in Bering Sea, nor do we know of any rookeries other than those above mentioned. No fur-seals are ever seen in Cook's Inlet above Anchor Point. We believe that in order to permanently preserve fur-seal life pelagic hunting should be stopped.

Experience.

Appear at Cooks Inlet latter part of June and first of July.

Decrease of seals.

Pups born only on Pribilof Islands.

Rookeries only on Pribilof Islands.

Prohibition necessary.

IVAN ALEXANDROFF.

FEODOR ^{his} × BARASTOFF.
mark.

Subscribed and sworn to before me this 9th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of Ivan Canetak, Michaeler Balashoff, Nicoli Inloo, Sacar Balashoff, Nicoli Nicoli, Sacar Rolyah, and Nicoli Inloo, jr., native fur hunters on Cooks Inlet.

PELAGIC SEALING.

Ivan Canetak, Michaeler Balashoff, Nicoli Inloo, Sacar Balashoff, Nicoli Nicoli, Sacar Rolyah, and Nicoli Inloo, jr., being duly sworn, depose and say: We reside at the settlement known as Soldovoi, on Cook's Inlet, Alaska, and have lived in the immediate neighborhood all our lives. We are, by occupation, hunters of all fur-bearing animals, excepting the fur-seal, which we do not hunt because we have been told it is unlawful. In the latter part of June and the first part of July, while engaged in hunting, we have observed fur-seals about the entrance of the inlet, passing to the westward; but have never seen any above Anchor Point. They were formerly much more plentiful than now, which is owing, we believe, to the number of vessels engaged in killing them at sea. We have never known of fur-seal pups being born elsewhere than on the rookeries of the seal islands in Bering Sea. Neither

Experience.

Appear latter part of June about Cooks Inlet.

Decrease.

Born only on Pribilof Islands.

Rookeries only on
Pribilof Islands.

Prohibition neces-
sary.

have we any knowledge of the existence of any fur-seal rookeries other than those above mentioned. We believe that, in order to permanently preserve fur-seal life, all pelagic hunting should be stopped.

IVAN CANETAK (his x mark).

MICHAELER BALASHOFF (his x mark).

NICOLI INLOO (his x mark).

SACAR BALASHOFF (his x mark).

NICOLI NICOLI (his x mark).

SACAR ROLYAN (his x mark).

NICOLI INLOO, jr. (his x mark).

Subscribed and sworn to, before me, this 9th day of April, 1892.

JOSEPH MURRAY,

United States Treasury Agent.

Deposition of Elias Esaïossen, miner, at Soldovoi, Cooks Inlet.

HABITS.

Elias Esaïossen, being duly sworn, deposeth and saith: I reside at the settlement known as Soldovoi, on Cook's Inlet, Alaska, and have lived in the immediate neighborhood four years. I am a miner and prospector by occupation, and have no knowledge of or experience in fur-seal life. I have never seen fur-seals in the waters of the inlet above Anchor Point, and am positive that no fur-seal rookery exists in the region, nor have I ever heard of any other rookeries than those on the seal islands of Bering Sea.

Has never seen fur
seals in inlet above
Anchor Point.

the inlet above

No rookery in the
region.

ing Sea.

ELIAS ESAÏOSSEN.

Subscribed and sworn to before me this 9th day of April, 1892.

JOSEPH MURRAY,

United States Treasury Agent.

Deposition of Vassili Feodor, native fur hunter, Cook's Inlet.

HABITS.

Vassili Feodor, being duly sworn, deposes and saith: I am a native of Alaska, and reside at the settlement known as Soldovoi, on Cook's Inlet, Alaska, where I have lived all my life. I am by occupation a hunter of all fur-bearing animals except the fur-seal, which I am told it is unlawful to kill. I have observed while engaged in hunting sea-otter, that fur seals first appear off this part of the coast in the vicinity of Cape Elizabeth, about the middle of the month of April, and are most numerous about the middle of June. They move across the mouth of the inlet from the eastward to the westward in schools. I have observed a few scattering fur seals in the lower part of Cook's Inlet, but only at long and irregular intervals; I have never seen a fur-seal in the waters of Cook's Inlet above Anchor Point. Fur-seals were formerly much more numerous than of late years, and are each year becoming constantly scarcer. I believe this decrease is due to the number of vessels which are engaged in hunting

Experience.

the fur-seal, which I am told it is unlawful to kill.

Appear off Cape
Elizabeth about mid-
dle of April.

and are most numerous about the middle of June. They move across the mouth of the inlet from the eastward to the westward in schools. I have observed

Never seen above
Anchor Point.

Decrease.

Cause.

them at sea. I have never heard of fur-seal pups being born anywhere except on a rookery; and I have no knowledge of any fur-seal rookeries in Alaska other than those on the seal islands of Bering Sea. I think fur-seals would increase if all hunting at sea was stopped.

Pups born only on rookeries on Pribilof Islands.

his
VASSILI X FEODOR.
mark.

Subscribed and sworn to before me this 9th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of A. J. Guild, sealer and miner, at Cook's Inlet.

PELAGIC SEALING.

A. J. Guild, being duly sworn, deposes and saith: I reside at the settlement known as Soldovoi, on Cook's Inlet, Alaska, and have lived at settlements along the coast between Sitka and Cook's Inlet for the past eleven years. I am a miner by occupation, but formerly followed the sea. I was for two seasons employed by parties in Port Townsend, Washington, as a sea-man on board of sealing schooners clearing from that place. Their hunters were all natives, who came from Neeah Bay, Washington. Fur-seals were first met off Cape Flattery as early as the first part of the month of January, and increased in numbers until the early part of June, diminishing again towards the latter part of the month. Their migratory movement is from the southward to the northward, following the general trend of the coast line. They first approach the coast en masse about Cape Flattery, but I have known of stragglers being seen as far south as Coos Bay. The vessels in which I sailed followed the seals up the coast of Vancouver Island as far north as Clayoquot Sound, at which point we left them in the latter part of July, owing to their scarcity. Other and larger vessels followed them to a greater distance, generally going up into Bering Sea, and keeping along with the main herds.

Experience.

Appear off Cape Flattery first part of January.

Migration.

The native hunters used spears exclusively in hunting the seals, and secured fully two-thirds of all struck. I am of the opinion that with firearms not more than one-third of the animals shot are actually secured. Of the skins taken in this region fully nine-tenths are pregnant and milking females, but I never saw a young pup in the water. Large bulls were never taken, their skins being practically valueless. Among all other fur seals at sea no distinction is possible and none is attempted. The killing is indiscriminate, the object being to secure all the pelts possible. Bulls are, however, readily recognized at sea by their larger size and darker fur.

Two-thirds secured by natives with spear.
One-third with firearms.

Ninety per cent pregnant or milking females.

Indiscriminate killing.

Females are most plentiful about the Vancouver coast from the middle of May to the end of June, very few others being secured during that period, the males having mostly gone north previously.

Pregnant female seals, being heavy and stupid, and sluggish of movement, are more easily approached, and in consequence a greater proportionate number of them are secured.

Fur-seals sink almost invariably in less than three minutes after being killed, and gravid cows much quicker.

They should be approached from the lee side quietly, and picked up as soon after being struck as possible in order to secure them. I am

Decree. decidedly of the opinion that fur-seal life has considerably decreased of late years, and believe it is due principally to pelagic sealing. I have never heard of, nor have no knowledge of fur-seal pups being born elsewhere in the northern hemisphere than on the rookeries of the seal islands of Bering Sea. Neither do I know of any other rookeries than the aforesaid. It is my opinion, that for the proper

Pups born only on Pribilof islands. Preservation of fur-seal life all pelagic hunting should be prohibited and stopped absolutely, as I think the female seal should have access to a rookery in order safely to deliver her young.

A. J. GUILD.

Subscribed and sworn to before this 9th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of Robert Michaelsen, miner and prospector, residing at Soldovoi, Cook's Inlet.

HABITS.

Robert Michaelsen, being duly sworn, deposes and saith: I reside at the settlement known as Soldovoi, on Cook's Inlet, Alaska, and have lived in the Territory for the past ten years, chiefly at settlements along the coast between Sitka and Cook's Inlet. I am a miner and prospector by occupation, and have never had any experience in sealing. I have become well acquainted

Experience. with the coast while engaged in my business of prospecting, traveling along it in a canoe and entering all bays, inlets, streams, etc., between the points above mentioned, and am positive that no rookeries exist in that region. In Cook's Inlet the water is very muddy above Anchor Point, and I have never known fur seals to be seen beyond it. Below that point

No rookeries along coast. a few stragglers are occasionally observed, but never more than two or three at a time.

No seals seen above Anchor Point.

ROBERT MICHAELSEN.

Subscribed and sworn to before me this 9th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of John W. Smith, agent of North American Commercial Company, at Soldovoi, Cook's Inlet.

PELAGIC SEALING.

John W. Smith, being duly sworn, deposes and says: I reside at the settlement known as Soldovoi, on Cook's Inlet, Alaska. I have lived in the Territory for the past

Experience.

twenty-four years, chiefly at trading posts along the coast of Alaska, between Prince William Sound and the Yukon River, in the employ of fur-trading companies. I am at present the agent of the North American Commercial Company at this place, and it is my duty to trade in, and otherwise handle furs and skins of all descriptions. Fur-seals first appear off the coast of the mainland, in the neighborhood of Port Etches, early in the month of April, providing the winter has been one of average duration. I believe the severity of the winter season has a direct bearing on the time of the movement northward of the fur-seals, as I have observed that if it has been an open one, they appear at an earlier date; while after an unusually severe one, the seals are later in making their appearance. Fur-seals travel in large schools, which follow each other closely. The annual migration of their entire number occupies from three to four weeks in passing a point in the region of Prince William Sound, and they move from the southward and eastward to the northward and westward.

To the best of my knowledge and belief, fur-seal life has considerably diminished within the past few years, which fact I attribute to the large number of vessels which have been engaged in pelagic seal hunting of late years. Breech-loading firearms (rifles and shotguns) are the instruments principally employed by pelagic fur-seal hunters, both native and white. By means of these weapons a greater number of skins are secured in a season than when spears are used; but the proportion of seals struck and *lost*, to those actually secured, is much less when the spear is used. It is impossible to distinguish between male and female seals at sea, even if the hunters so desired, except in the case of full-powered bulls, when they are readily recognized by their greatly superior size. Large bulls are rarely taken. No distinction is thought of by pelagic seal-hunters, and the killing is done indiscriminately, the object being to secure as many skins as possible. Fur-seals taken in the open sea must be struck in moderately calm weather, and picked up immediately afterwards in order to secure them before sinking.

I have no knowledge of, and have never heard of, the existence of any fur-seal rookeries in the northern hemisphere, other than those on the seal islands of Bering Sea. I have never known of fur-seal pups being born elsewhere than on the aforesaid rookeries. It is my belief that for the permanent preservation of fur-seal life, all pelagic hunting should be prohibited absolutely.

JOHN W. SMITH.

Subscribed and sworn to before me this 9th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Migration.

I believe the
Effect of climate.

Decrease.

Shooting seals.

Waste of life.

Sex indistinguish-
able in water.

Indiscriminate kill-
ing.

No rookeries except
on islands.

No pups born else-
where.

Absolute prohibi-
tion necessary.

TESTIMONY TAKEN IN PRINCE WILLIAM SOUND.

Deposition of Nicoli Gregoroff et al.

PELAGIC SEALING.

Nicoli Gregoroff, Peter Adungan, Pavel Shimeakin, Anton Kalishnikoff, Avakoon Kalishnikoff, Miron Aliman, Timofe Chayha, Afanasse Malick, Marka Koosche, Giorgi Agooklook, Gregory Aogay, Makar, Choomovitsky, Yakoff Abakoo, and Evan Choomovitsky, being duly sworn, depose and say: We are natives of Alaska, and reside at Port Etches, Prince William Sound, Alaska, and have lived in the Territory all of our lives. We are hunters of fur-bearing animals, and are well acquainted with the coast line of this region. In the latter part of March a few fur-seal usually first make their appearance in Prince William Sound, and are most plentiful in the latter part of April. They are mostly large males, very few females being taken, and those only towards the close of the season in the latter part of May. Very few females taken in this region but are pregnant.

Experience. We use fire-arms (rifles and shot-guns) principally, and hunt in bidarkas. We have never seen fur-seal pups of the same season's birth in the water or on patches of floating kelp, and do not think they could be successfully raised under such conditions. Neither have we any knowledge of the existence of any fur-seal rookeries, except those on the seal islands of Bering Sea.

Appear in Prince William Sound in latter part of March. We have no way of distinguishing fur-seals in the water at sea, as to whether males or females, and do not try to do so; but kill all we can indiscriminately. Large seals sink rapidly, while the smaller ones float a few minutes. Fur-seals have decreased in numbers of late years, and we believe it is due principally to the large number of vessels hunting them at sea. We think that for the proper preservation of the fur-seal species, all pelagic hunting should be stopped absolutely.

Pelagic birth impossible. We have no way of distinguishing fur-seals in the water at sea, as to whether males or females, and do not try to do so; but kill all we can indiscriminately. Large seals sink rapidly, while the smaller ones float a few minutes. Fur-seals have decreased in numbers of late years, and we believe it is due principally to the large number of vessels hunting them at sea. We think that for the proper preservation of the fur-seal species, all pelagic hunting should be stopped absolutely.

Rookeries only on Pribiloff Islands. We have no way of distinguishing fur-seals in the water at sea, as to whether males or females, and do not try to do so; but kill all we can indiscriminately. Large seals sink rapidly, while the smaller ones float a few minutes. Fur-seals have decreased in numbers of late years, and we believe it is due principally to the large number of vessels hunting them at sea. We think that for the proper preservation of the fur-seal species, all pelagic hunting should be stopped absolutely.

Indiscriminate killing. We have no way of distinguishing fur-seals in the water at sea, as to whether males or females, and do not try to do so; but kill all we can indiscriminately. Large seals sink rapidly, while the smaller ones float a few minutes. Fur-seals have decreased in numbers of late years, and we believe it is due principally to the large number of vessels hunting them at sea. We think that for the proper preservation of the fur-seal species, all pelagic hunting should be stopped absolutely.

Decrease. We have no way of distinguishing fur-seals in the water at sea, as to whether males or females, and do not try to do so; but kill all we can indiscriminately. Large seals sink rapidly, while the smaller ones float a few minutes. Fur-seals have decreased in numbers of late years, and we believe it is due principally to the large number of vessels hunting them at sea. We think that for the proper preservation of the fur-seal species, all pelagic hunting should be stopped absolutely.

Prohibition necessary. We have no way of distinguishing fur-seals in the water at sea, as to whether males or females, and do not try to do so; but kill all we can indiscriminately. Large seals sink rapidly, while the smaller ones float a few minutes. Fur-seals have decreased in numbers of late years, and we believe it is due principally to the large number of vessels hunting them at sea. We think that for the proper preservation of the fur-seal species, all pelagic hunting should be stopped absolutely.

NICOLI GREGOROFF [In Russian].

PETER ADUNGAN (his x mark).

PAVEL SHIMEAKIN (his x mark).

ANTON KALISHNIKOFF (his x mark).

AVAKOON KALISHNIKOFF (his x mark).

MIRON ALIMAN, (his x mark).

TIMOFE CHAYHA (his x mark).

AFANASSE MALICK (his x mark).

MARKA KOOSCHE (his x mark).

GIORGI AGOOKLOOK (his x mark).

GREGORY AOGAY (his x mark).

MAKAR CHOOMOVITSKY (his x mark).

YAKOFF ABAKOO (his x mark).

EVAN CHOOMOVITSKY (his x mark).

I hereby certify that I have interpreted the subject matter to those persons whose signatures are hereto affixed and that they truly understand its contents.

NEEPOLI GREGOROFF.

Subscribed and sworn to before me this 16th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of Frank Korth, agent for fur trading company at Port Etches.

DECREASE.

Frank Korth, being duly sworn, deposes and saith: I reside at Port Etches, Prince William Sound, Alaska, and have lived in the Territory for the last eight years. I am the agent for a fur trading company at this place, but never had any personal experience in fur-seal hunting. I am, however, well acquainted with the coast of Alaska from Prince William Sound to Unimak Pass. Fur-seals usually first appear in Prince William Sound in large schools, early in the month of April. They were formerly much more plentiful than of late years. In the early part of the season the males are most numerous, a few females being taken towards its close in the latter part of May. Firearms (rifles and shotguns) are used almost exclusively. All seals sink quickly, but those shot through the head and killed remain on the surface longest. I have no knowledge of fur-seal pups being born in the water, or on patches of floating kelp, and do not believe they could be successfully raised under such conditions. Neither do I know of any fur-seal rookeries other than those on the seal islands of Bering Sea. Owing to the steady decrease in fur-seal life of late years, due to the large number of vessels hunting them at sea, it is my opinion that in order to save the species from extermination all pelagic hunting of fur-seals should be prohibited and stopped absolutely.

Experience.

First appearance of seals in Prince William Sound.

Decrease.

Weapons.

No pups born in water or on kelp.

Rookeries only on Pribilof Islands.

Prohibition necessary.

FRANK C. KORTH,

Subscribed and sworn to before me this 16th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of Olaf Kvan, sealer.

HABITS.

Olaf Kvan, being duly sworn, deposes and saith: I reside on Green Island, in Prince William Sound, Alaska, and have lived in the territory for the last ten years. I am a mariner by occupation, but of late years have been engaged in hunt-

Experience.

First appearance of seals in Prince William Sound. ing fur-bearing animals. Seals first appear in Prince William Sound about the 1st of May, and were formerly quite plentiful, while now they are becoming constantly scarcer. I do not know the cause of this decrease. All the seals which I have seen killed were females, and the majority of these were pregnant cows. My experience is that about four-fifths of all fur-seals killed in the water are lost. I can not tell a male from a female in the water, and when killing them never make any effort to do so, as the object is to get all the skins possible. I have never seen a live pup of the same season's birth in the water. I have no knowledge of the existence of any fur-seal rookery or place where fur-seals haul up on the land, other than on the rookeries of the several seal islands in Bering Sea.

Decrease. Pelagic sealing. Mostly pregnant females killed.

Waste of life.

Indiscriminate.

Pups not born in water.

Rookeries only on the islands.

OLAF KVAM.

Subscribed and sworn to before me this 13th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

TESTIMONY TAKEN IN YAKUTAT BAY.

Deposition of Akotoo, sealer.

PELAGIC SEALING.

Akatoo, being duly sworn, deposes and says: I was born at Yakutat about thirty years ago; am a hunter by occupation, hunting sea otter and bear. Have always taken seal with spear and shotgun; never used a rifle. When spear was used I lost none, and I lose no seal when I use the shotgun, for I don't shoot them unless they are close to the boat. Most of the seal killed by me have been females with pup. I shoot all seal that comes near the canoe and use no discrimination, as I can not distinguish a young bull from a cow in the water. All hunters shoot everything that comes near their boats. Never heard of a seal pup being born in the water nor on the land, but have heard they are born on some islands in Bering Sea. In the winter a few pups are driven into the bay by the storms. Seal are becoming very scarce on the coast and the Indians have hard work killing what few they do. I think the white men should be stopped from killing seal off the coast of Alaska so that they will become plenty again. That is all I know about seal.

Experience.

Loses none with spear or shotgun.

Mostly pregnant cows.

Indiscriminate killing.

Not born in water.

Decrease.

Prohibition necessary.

AKATOO, his x mark.

Witness to his mark:

PETER CHURCH,

United States Interpreter.

A. W. LAVENDER.

Subscribed and sworn to before me this 18th day of April, 1892.

A. W. LAVENDER,

United States Treasury Agent.

Deposition of Atenas-Koo, Yakutat Indian sealer.

PELAGIC SEALING.

Atenas-Koo, being duly sworn, deposes and says: I am an old man. Was born in Yakutat and am a member of the Yakutat tribe of Indians. I have hunted all my life. Have killed fur-seals, mostly females with pup, but have never seen or heard of fur-seals hauling up on the land in this part of Alaska, or anywhere else. Never have known fur-seal pups to be born in the water, nor have I ever heard of pups being born in the water or anywhere else on Alaska. Have never known of nor have

Experience.

Mostly fur seals with pup killed.

Do not haul up on Alaskan coast.

Fur-seal pups not born in water.

I seen any fur-seal in the waters of Disenchantment Bay or any other inlet in this part of Alaska. They do not frequent these places. That is all I have got to say. Not seen in inland waters.

ATENAS-KOO, his x mark.

Witness to his mark:

PETER CHURCH,
United States Interpreter.
A. W. LAVENDER.

Subscribed and sworn to before me, this 18th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Gonastut, Yakutat Indian sealer.

PELAGIC SEALING—DECREASE.

Gonastut, being duly sworn, deposes and says: I am 30 years old. I was born at Kodiak and live at Yakutat and belong to the Yakutat tribe of Indians. Am a hunter by occupation. Have killed a few fur-seal. I kill everything that comes near the boat and use no discrimination, as the sex can not be told in the water, except it be an old bull, which is told by its size. Have used shotgun and rifle in taking seal. I lose about 50 per cent when I use the shotgun, and more are lost when rifle is used. I always shoot them in the head when possible, but if not possible I shoot them in any part of the body that is exposed. I have never known any fur-seal to haul up on the land in any part of Alaska, except on the Pribilof Islands. Never have heard of any pup seals being born in the water. Have never seen any fur-seal in the inland waters of southern Alaska, but have heard of pups being seen in the bays during the prevalence of storms on the coast in winter time.

Experience. Indiscriminate killing. Do not haul up except on Pribilof Islands. No pelagic birth. Decrease. Too many schooners are hunting seal and Indian hunters have to go a long way in their canoes in order to get any, and they seldom kill one. Seal will soon be no more unless the Great Father stops the schooners from hunting. That is all I have got to say.

GONASTUT, his x mark.

Witness to his mark:

PETER CHURCH,
United States Interpreter.
A. W. LAVENDER.

Subscribed and sworn to before me this 18th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Jacob Hartlisnuk, Yakutat Indian hunter.

PELAGIC SEALING.

Jacob Hartlisnuk, being duly sworn, deposes and says: I was born at and have lived in Yakutat all my life. I belong to the Yakutat tribe of Indians. I am now a very old man. I am by occupation a hunter. I have hunted sea-otter, but have never killed a fur-seal in my life. Never have known of a fur-seal pup being born in the water or anywhere else in Alaska, nor have I ever heard of fur-seal being hauled out on the land in Alaska. I have traveled from Icy Bay to Sitka Sound and meet many Indians belonging to other tribes of Indians, and they never have told me that they had ever seen any fur-seal hauled out on the coast of Alaska or on any of the rocks adjacent thereto. I have have heard that fur-seal do haul out, and that the pups are born on the Pribilof Islands. It is reported to me by Indians who hunt fur-seal that they are becoming very scarce. They have noticed decrease in the last four years. I think if the schooners were prohibited from sealing they would become plentiful on this coast again. That is all I have to say.

No pelagic birth known.

Do not haul up on coast.

Haul up and are born on islands.

Decrease.

Protection.

his
 . JACOB X HARTLISNUK.
 mark.

Witness to his mark:

PETER CHURCH,
United States Interpreter.
 A. W. LAVENDER.

Subscribed and sworn to before me this 18th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Sam Hayikahtla, hunter.

PELAGIC SEALING.

Sam Hayikahtla, being duly sworn, deposes and says: I was born at Yakutat, and have lived there all my life. Am 49 years old. Have been hunting all my life. Never heard of any fur-seals being hauled up on the land on any part of the coast of Alaska where I have traveled. Nor have I ever heard of pups being born in the water, or on the land in any part of Alaska, except on the Pribilof Islands in Bering Sea. Icy Bay to Sitka, and have never heard Indians of other tribes say that they had seen fur-seals hauled out on the land, nor have I ever heard them say that pups were born in the water. Fur-seal are getting very scarce along this coast and Indian fur-seal hunters have great trouble in getting any now, while in former years they got plenty. If the Great Father does not stop schooners from hunting seal along the coast of Alaska and in Bering Sea,

No pelagic birth.

I travel from

Never heard of fur seals born in water, nor do they haul out on coast.

Decrease.

they got plenty.

Protection.

the seal will soon be gone and the Indian must starve that makes his living by hunting them. I am told the white hunter kills mostly cow seal with pup. That is all I have to say.

his
SAM X HAYIKAHTLA,
mark.

Witness to his mark:

PETER CHURCH,
United States Interpreter.
A. W. LAVENDER.

Subscribed and sworn to before me this 18th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Kinkooga, Yakutat sealer.

PELAGIC SEALING.

Kinkooga, being duly sworn deposes and says: I was born at Yakutat and have lived there all my life. I am about 40 years old, I think. By occupation I am a hunter. Have killed a few fur-seal in my life. Have never known any fur-seal to haul out on the land, nor have I heard of any being hauled out on the land from people of different tribes whom I have met. Have never seen or heard of a fur-seal pup being born in the water. Hunters use no discrimination in hunting seal, but shoot everything that comes near the boat. Have traveled from Icy Bay to Wrangel and have never seen any seal in the inland waters in my life. A few fur-seal pups have been killed in the bay within my remembrance, in the winter seasons, driven there by the storms on the coast at those times. Seal are getting very scarce on the coast the last three or four years. The reason of the scarcity is, I think, that there are too many white hunters sealing in the open waters. Indian hunters can not get any more in canoes on account of the few seals that are left, are so far from the land. All sealing in open waters by white men should be stopped. I have no more to say.

KINKOOGA, his x mark,

Witness to his mark:

PETER CHURCH,
United States Interpreter.
A. W. LAVENDER.

Subscribed and sworn to before me this 18th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Nechantake, Yakutat Indian sealer.

PELAGIC SEALING—MIGRATION.

Nechantake, being duly sworn, deposes and says: I was born in Yakutat and have lived there all my life. I belong to the Yakutat tribe of Indians, and am a very old man. Am by occupation a hunter. Have never known any fur-seal to haul up on coast.

seal to be hauled up on the coast of Alaska from Icy Bay to Wrangel. I have been up and down between those places many times. Fur-seal are not as plentiful on the coast as they used to be. The Indians kill but very few now. In former years they used to get many of them, but the last few years they have become very scarce and the Indian hunters take very few. I think the reason of the seal becoming so scarce is that there are too many white men hunting seal in the Bering Sea and the Pacific Ocean and it should be stopped. Have never seen any fur-seals in the sounds or inlets between this place and Wrangel at any time of year. In early days a few pups used to be driven into this bay in the winter by the storms on the coast. I have no more to say.

Decrease.

Protection.

Fur-seals never seen at Wrangel any time of year.

NECHANTAKE, his \times mark.

Witness to his mark:

PETER CHURCH,

United States Interpreter.

A. W. LAVENDER.

Subscribed and sworn to before me this 18th day of April, 1892.

A. W. LAVENDER,

*United States Treasury Agent.**Deposition of W. Roberts, sealer (master).*

PELAGIC SEALING.

W. Roberts, being duly sworn, deposes and says: I reside at Yakutat Bay, Alaska, and I am by occupation a mariner. I have been engaged in the business of catching seals in the North Pacific Ocean and Bering Sea for four years, three years as sailor, one year as captain, two years off the coast of British Columbia, two years off Southeast Alaska and Bering Sea.

Experience.

I have found that seals appear off the Farrallone Islands about Christmas, off British Columbia in March, off Yakutat Bay April 15th.

First appearance of seals off coast.

Have used both rifle and shotgun in killing seals, but now use shotgun only, having found that for same number of shots more seals are taken therewith. When rifle is used less than one seal for five shots is secured; many shots miss, but of those seals hit about one-half are secured. If shot in the head a seal will usually float and is taken. If shot through the body it usually sinks, or escapes to die later. When shotgun is used about one seal is secured for five shots, those not secured generally sink at once or are badly wounded and escape to die. Of seals shot dead about one-half sink at once and one-half are taken.

Prefers shotgun to rifle.

Waste of life.

In the trip just made off this coast, I have taken eighty-one seals, of which three were bulls, three were bachelors, two were yearlings, about fifty were females pregnant, rest females barren. This is a fair average. It is harder to take an old seal than a young one, the older ones being more on the alert and are not less active when pregnant.

Majority of coast catch pregnant cows.

Yearlings are rarely taken in North Pacific. The age or sex of a seal in the water can not be distinguished, except that when close the apparent size is an indication of age.

No discrimination is shown in taking seal. The object is to take every one possible. During past four years have not noticed much change in number of seal.

Indiscriminate killing.

Pups are not born in water. In some cases females far advanced in pregnancy haul up on coast to give birth; but otherwise seals do not stop, except at Pribiloff Islands.

I have been in Bering Sea but a part of one season. Of the seals taken about one-third were males, one third females with young, one-third barren and yearlings.

Proportions caught in Bering Sea.

Nursing cows taken 100 miles from islands.

Close season necessary.

I have taken nursing females when as much as 100 miles from Pribiloff Islands.

From my knowledge and from conversation with other sealers, I believe that for the proper preservation of seal life, sealing should be absolutely prohibited every two or three years.

W. ROBERTS.

YAKUTAT BAY, ALASKA, May, 1892.

Subscribed and sworn to before me this 28th day of May, A. D. 1892.

GILES B. HARBER,
Lieutenant, U. S. N.

Deposition of Rondtus, Yakutat Indian sealer.

PELAGIC SEALING.

Rondtus, being duly sworn, deposes and says: I was born at Yakutat, and belong to the Yakutat tribe of Indians. Am about 28 years old, and a hunter by occupation. I have hunted fur-seal, otter, and bear. I use a shotgun to hunt for seal. Have lost very few seal, as I always shoot them near the boat. Everything in shape of a seal that comes near the boat is killed. I use no discrimination. I have never seen nor heard of a fur-seal pup being born in the water, or on the rocks, on any part of the coast of Alaska, but have heard that seal are born on the Pribilof Islands. Seal are getting very scarce along the coast, caused by the indiscriminate slaughter of seals in the open waters. Most of the seals taken by me have been cows with pups. It would be a good thing for the Indians if the schooners were prohibited from sealing in the Bering Sea and the North Pacific Ocean; if it is continued the Indians who depend on fur-seal for a living must starve. Years ago a few seal pups were driven into the bays by the storms on the coast during the winter season. That's all I know.

Experience.

Indiscriminate killing.

No pelagic birth.

Decrease.

Protection.

RONDtus, his X mark.

Witness to his mark:

PETER CHURCH,

United States Interpreter.

A. W. LAVENDER.

Subscribed and sworn to before me this 18th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Schkatatin, Yakutat Indian scaler.

PELAGIC SEALING.

Schkatatin, being duly sworn, deposes and says: I was born in Yakutat and I have lived there all my life. I belong to the Yakutat tribe of Indians and am now a very old man; am by occupation a hunter. Yes; I have killed fur-seal. I used the bow and arrow for killing them. Never knew any fur-seal pups to be born in the water or anywhere else in Alaska. Have heard that they are born on the Pribilof Islands. Have never known any fur-seal to come up on the land in Alaska or on any of the islands adjacent thereto, but have heard that they do haul out on the Pribilof Islands. I have traveled from Icy Bay to Nuchuk and back along the coast as far east as Lityu Bay, and have never seen any fur-seal in any inland waters wherever I have traveled. I think the Great Father should stop all schooners from hunting seal in Bering Sea and the Pacific Ocean, so the seal would become plentiful again and the Indian hunters would again have a chance to kill them. That is all I know about seal.

Experience.

Never knew

No pelagic birth.

Do not haul up on Alaskan coast.

on the Pribi-

Have never seen fur-seals in inland waters.

should stop all

Protection.

SCHKATATIN, his × mark.

Witness to his mark:

PETER CHURCH,

United States Interpreter.

A. W. LAVENDER.

Subscribed and sworn to before me this 18th day of April, 1892.

A. W. LAVENDER,

*United States Treasury Agent.**Deposition of Showoosch, Yakutat Indian scaler.*

PELAGIC SEALING.

Showoosch, being duly sworn, deposes and says: I was born at Sitka; am a very old man and I belong to the Yakutat tribe of Indians; have been a hunter all my life, hunting sea-otter and seal in the summer and bear and fox in the winter. When I was a young man I killed fur-seal off Yakutat Bay, using a spear altogether. I haven't killed any seal lately, as they are getting very scarce. The majority of seal killed by me have been cows; have killed a few small males. Have never known or heard of any pups being born in the water or anywhere on the coast, nor have I ever known or heard of any fur-seals being hauled up on the land anywhere in Alaska. Once in a while a few pups are driven into the bay by the hard gales blowing from the southeast on

Experience.

Decrease.

No pelagic birth.

Do not haul up on Alaskan coast.

the coast during the month of December. I think the Great Father should stop all sealing by schooners in the North Pacific Ocean and the seal would again become plenty, so the Indians could again kill plenty of them. That is all I know about seals.

SHOWOOSCH, his × mark.

Witness to his mark:

PETER CHURCH,
United States Interpreter.
A. W. LAVENDER.

Subscribed and sworn to before me this 18th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Skeenong, Yakutat Indian hunter.

PELAGIC SEALING.

Skeenong, being duly sworn, deposes and says: I was born at Copper River. I am an old man and belong to the Yakutat tribe of Indians, but have lived here but one year. I hunt the sea-otter and land game in seasons. Have heard all the Indians with whom I have come in contact say that the fur seal are becoming very scarce of late years. Have never known or heard of a fur-seal pup being born in the water. Have heard that the fur-seal haul up on the Pribilof Islands, but never have seen, or have Do not haul up on Alaskan coast. I ever heard of any fur-seal being hauled up on any part of the coast of Alaska, or rocks adjacent thereto. Never have seen any fur-seal in Disenchantment Bay, or anywhere else in the inlets of Alaska. I think the schooners should be stopped hunting seal in the open waters of the Pacific Ocean and Bering Sea, and if they are not stopped at once the Indians who hunt fur-seal on the coast of Alaska for a living will become very poor and probably starve to death. That is all I have to say.

SKEENONG, his × mark.

Witness to his mark:

PETER CHURCH,
United States Interpreter.
A. W. LAVENDER.

Subscribed and sworn to before me this 18th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Stahkan.

PELAGIC SEALING.

Stahkan, being duly sworn, deposes and says: I was born at Yakutat and am now a very old man. Have hunted seal and sea-otter all my life during the summer season, using

the spear and arrow. I have never known any fur-seal to haul up on the land anywhere around this part of Alaska. Nor have I ever known any fur-seal pups to be born in the water or anywhere else in Alaska, nor have I ever heard any Indians with whom I have come in contact say that they had ever known any fur-seal pups to have been born in the water, nor had they known any fur-seal to haul up on the land in any part of Alaska. That is all I have got to say.

Never know fur seals to haul up on Alaska coast.

No pelagic birth.

STAHKAN, his × mark.

Witness to his mark:

PETER CHURCH,

United States Interpreter.

A. W. LAVENDER.

Subscribed and sworn to before me this 18th day of April, 1892.

A. W. LAVENDER,

United States Treasury Agent.

Deposition of Thunk, native otter hunter.

PELAGIC SEALING.

Thunk, being duly sworn, deposes and says: I am so old that I have lost my eyesight. Was born in Yakutat and have lived there all my life. Never killed any fur-seal in my life. Spent all my life hunting sea-otter. Have never known any fur-seal to haul up on the land around these bays or in any other part of Alaska. Have never known or heard of any fur-seal pups being born in the water. Neither have I heard of any fur-seal hauling up on the land anywhere around this part of Alaska. Had there been any seal hauled up on the land it would have been told to me by people of different tribes with whom I have come in contact. I have no more to say.

Experience.

Fur seal do not haul up on coast.

No pelagic birth.

THUNK, his × mark.

Witness to his mark:

PETER CHURCH,

United States Interpreter.

A. W. LAVENDER.

Subscribed and sworn to before me this 18th day of April, 1892.

A. W. LAVENDER,

United States Treasury Agent.

Deposition of Twongkwak, Yakutat Indian scaler.

PELAGIC SEALING.

Twongkwak, being duly sworn, deposes and says: Was born at Yakutat; am about 30 years old, and belong to the Yakutat tribe of Indians. Hunting is my occupation; have hunted sea-otter and seal; have killed mostly pups in the fall of the

Experience.

Do not haul up on the land. year, driven in by the severe weather outside. Never have seen any fur-seal haul up on the land nor have I ever heard of any seal hauling up on the land. Have never heard of seal pups being born in the water nor anywhere else in Alaska. Have heard all the Indians of different tribes say that seal are becoming very scarce in the last three or four years. They also say that unless the schooners are stopped from sealing in Bering Sea and the North Pacific Ocean the seal will all be gone, and none will be left for the Indians or anyone else. The seal have become so scarce of late years that I don't know much about them. This is all I know.

TWONGKWAK, his × mark.

Witness to his mark:

PETER CHURCH,
United States Interpreter.
A. W. LAVENDER.

Subscribed and sworn to before me this 18th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Yahkah, Yakutat Indian hunter.

PELAGIC SEALING.

Yahkah, being duly sworn, deposes and says: I was born at Yakutat. I am about 35 years old and belong to the Yakutat tribe of Indians. Am a hunter by occupation. I go from Icy Bay to Sitka Sound and come in contact with the people of different tribes of Indians, and have never seen myself nor heard other Indians say that they had seen fur-seal pups born in the water. Have never seen or heard of fur-seals hauling up on the land in any part of Alaska. When I was a small boy, a few pup seals used to be driven into the bays by hard storms on the coast. The seal, like the sea otter are becoming very scarce. I think if the schooners were prohibited from taking seal in Bering Sea and along the coast of Alaska, the seal would become plentiful and the Indians could kill them once more in canoes. I don't know anything more about seals.

YAHKAH, his × mark.

Witness to his mark:

PETER CHURCH,
United States Interpreter.
A. W. LAVENDER.

Subscribed and sworn, to before me, this 18th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

TESTIMONY TAKEN AMONG NATIVES ON OR NEAR LYNN CANAL AND CHATHAM SOUND.

Deposition of George, the son of Klotz-klotz, Chilcat Indian trader.

PELAGIC SEALING.

George, the son of Klotz-klotz, being duly sworn, deposes and says: I belong to the Chilcat tribe of Indians and reside at Chilcat; am about 35 years old. I trade with the interior Indians and up the coast through Lynn Canal, and down the coast as far as Wrangel and Stikeen. Never killed a fur-seal in my life. Have never heard of fur-seal hauling upon any land in Alaska, nor have I ever heard of seal pups being born in the water or on the coast of Alaska. In my dealings with the people of other tribes with whom I come in contact they would have told me had they known of any fur-seal having hauled up on any part of the Alaskan coast visited by them. Know nothing more about seals.

Experience.
Do not haul up on
Alaskan land.
No pelagic birth.

GEORGE ^{his} × KLOTZ-KLOTZ.
mark.

Witness to his mark:

PETER CHURCH,
United States Interpreter.
A. W. LAVENDER.

Subscribed and sworn to before me this 14th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Kaskan, Chilcat Indian trader.

PELAGIC SEALING.

Kaskan, being duly sworn, deposes and says: I belong to the Chilcat tribe of Indians. I have traded with other tribes up Lynn Canal and as far north as the Yukon River, and down the coast as far as Wrangel. Have never killed or seen a fur-seal in my life, nor have I ever heard of any fur seal having been seen in the inland waters of Alaska where I have traveled. Had any fur-seal been hauled up on the land in any inlet around Chatham Straits, Stevens Passage, or any of the waters of southeastern Alaska, I would have known of it,

Experience.
Fur seal do not frequent inland Alaskan waters.
Do not haul up on land.

as it would have been told me by the people of other tribes. That's all I have to say.

KASKAN, his x mark.

Witness to his mark:

PETER CHURCH,

United States Interpreter.

A. W. LAVENDER.

Subscribed and sworn to before me this 14th day of April, 1892.

A. W. LAVENDER,

United States Treasury Agent.

Deposition of George Shuckeyah, cousin of head chief of Chilkat Indians.

PELAGIC SEALING.

George Shuckeyah, being duly sworn, deposes and says: I am a cousin of the head chief of the Chilkat Indians. Am 30 years old. I go up and down the coast from Chilkat to Wrangel and meet many people belonging to the different tribes of Indians. Have never seen a fur-seal in Chatham Straits, Stevens Passage, or anywhere else in my life, nor have I ever heard of any fur-seal hauling out on any of the islands or rocks on any part of the coast of Alaska. And had any ever hauled out I should have known it by being told by the people of the different tribes with whom I come in contact. That is all I have to say.

Experience.

Fur seal do not haul up on Alaskan coast.

GEORGE ^{his} X SHUCKEYAH.
mark.

Witness to his mark:

PETER CHURCH,

United States Interpreter.

A. W. LAVENDER.

Subscribed and sworn to before me this 14th day of April, 1892.

A. W. LAVENDER,

United States Treasury Agent.

Deposition of Kah-chuck-tee, chief of Huchenoos Indians.

PELAGIC SEALING.

Kah-chuck-tee, being duly sworn, deposes and says: I am the chief of the Huchenoos. I am a pretty old man. I don't do anything; am the gentleman of my tribe. My tribe live by catching herring, from which they make oil, and dispose of it to the Indians of other tribes, which come here in large numbers. I have visited all the inlets and islands in Chatham Sound and other parts of Alaska as far as Sitka and never saw a fur-seal in the inland waters.

Experience.

Fur seal do not frequent inland waters.

Nor have I ever heard of a fur-seal being seen in the inland waters. Have never heard of any fur-seal being hauled up on the land or rocks on or off the coast of Alaska. Had fur-seal been hauled up on the main coast or islands of Alaska I should have known it, as the news would have been brought to me by the Indians of different tribes who come to purchase oil from my people. I have no more to say.

Do not haul up on coast.

KAH-CHUCK-TEE, his × mark.

Witness to his mark:

PETER CHURCH,

United States Interpreter.

A. W. LAVENDER.

Subscribed and sworn to before me this 12th day of April, 1892.

A. W. LAVENDER,

United States Treasury Agent.

Deposition of Toodays Charlie, Killisnoo herring fisherman.

PELAGIC SEALING.

Toodays Charlie, being duly sworn, deposes and says: I am 30 years old. I belong to the band of Killisnoo Indians and was born at and have lived in Killisnoo all my life. Am by occupation a herring fisherman. I visit all the islands and inlets around Chatham Sound in following my occupation of making oil from the herring which I catch. Have never seen a fur-seal in the inland waters in my life, nor did I ever hear of any being in the island waters. Have never heard nor do I believe there ever was any pups born in the water nor any seals hauled up on any part of the coast of Alaska or on the islands adjacent thereto. Had any fur-seal hauled up it would have become known to the Indians and I would have heard it, for I sell oil to all the tribes of Indians in southeastern Alaska, and they would have told me had they ever known or heard of there being a fur-seal rookery at any place along the coast. This is all I have got to say.

Experience.

Have never seen fur seal in inland waters.

Never heard of pelagic birth.

TOODAYS ^{his} × CHARLIE.
mark.

Witness to his mark:

PETER CHURCH,

United States Interpreter.

A. W. LAVENDER.

Subscribed and sworn to before me this 12th day of April, 1892.

A. W. LAVENDER,

United States Treasury Agent.

Deposition of Nicholi Gadowen, Indian.

PELAGIC SEALING.

Nicholi Gadowen, being duly sworn, deposes and says: I am second chief of the Killisnoo Indians; am 50 years old; born at Killisnoo and

have lived there all my life; am by occupation a herring fisherman. Have never killed a fur seal in my life. In the winter season many years ago pup seals used to frequent the Experience. sound, driven in by the heavy southeast gales prevailing at that time; but the last four years there has not been a fur seal seen in any part of Chatham Sound that I have been able to learn of. I visit the different parts of the sound with my tribe when they are making oil and have never known any fur seal to haul up on the land or rocks in any part of Alaska that I ever visited, nor have I ever heard of any pup seal being born in the water or anywhere else in Alaska, and had they ever been born in the water or on the islands or rocks of Alaska some of my tribe would have known it and it would have been reported to me. I have nothing more to say.

NICHOLI ^{his} × GADOWEN.
mark

Witness to his mark:

PETER CHURCH,
United States Interpreter.
A. W. LAVENDER.

Subscribed and sworn to before me this 12th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Albert Keetnuck, trader in oil, etc.

PELAGIC SEALING.

Albert Keetnuck, being duly sworn, deposes and says: I am 27 years old. Was born and live at Killisnoo. Make herring Experience. oil, cut wood, and grow potatoes and turnips. The herring oil I make I sell to other Indians, and the potatoes and turnips I dispose of to the white men around the sound, and sell the wood to the fish company. My business calls me away from this place to the different inlets and islands around Chatham Sound, and have never seen or heard of fur seal anywhere in the sound. The Indians who buy my fish oil belong to tribes who live long distances away. Have never heard them say that they ever saw Do not haul up on any fur seal hauled out on the islands, rocks, or any land. part of the mainland of Alaska. Had they hauled out on any place in Alaska I should have known it myself or would have been told of it by the Indians who come long distances to purchase oil from me. I have no more to say.

ALBERT ^{his} × KEETNUCK.
mark.

Witness to his mark:

PETER CHURCH,
United States Interpreter.
A. W. LAVENDER.

Subscribed and sworn to before me this 13th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of George Ketwooschish, Thlinket Indian fisherman.

PELAGIC SEALING.

George Ketwooschish, being duly sworn, deposes and says: Am 30 years of age. Born in and have lived at Killisnoo all my life. Belong to the Thlinket tribe of Indians. I am a herring fisherman by occupation. I make herring oil which I sell to the people of other tribes along the coast. They come a long distance to buy it of me. I visit all the islands and rocks in following my business, in Chatham Sound, and have never been able to see a fur seal in any part of the waters of southeastern Alaska in my life. Have never heard of any seal being in the waters nor on the land or rocks off or on the coast of southeastern Alaska. Have never heard of pups being born in the water anywhere along the coast of Alaska in my life. Following my occupation, the people of other tribes come a very long distance to buy of me the oil which I make. Had there ever been any seal hauled out on any part of the Alaskan coast it would have been told to me by these people who come to my home to buy oil. That's all I have to say.

Experience.

Seals do not frequent waters of SE. Alaska.

No pelagic birth.

GEORGE ^{his} × KETWOOSCHISH.
mark.

Witness to his mark:

PETER CHURCH,

United States Interpreter.

A. W. LAVENDER.

Subscribed and sworn to before me this 12th day of April, 1892.

A. W. LAVENDER,

*United States Treasury Agent.**Deposition of Konkonal, native Killisnoo fisherman.*

PELAGIC SEALING.

Konkonal, being duly sworn, deposes and says: I am one of the headmen of the tribe of Neltuskin village. Am 60 years of age. Was born at and have lived at Killisnoo all my life. Have always made it my business to catch herring and make oil, which I have disposed of to Indians of other tribes, who come a long distance to buy it. I have never seen or heard of any fur seal being in the inland waters around Chatham Sound or any other place in Alaska. Nor have I ever heard of any seal being hauled up on any of the islands or on the coast of southeastern Alaska. Had any seal hauled up on the land or islands of southeastern Alaska I would have known it by hearing the Indians from other tribes talking about it who came to buy oil. That is all I have to say.

Experience.

No seals in inland waters.

Do not haul up on coast.

KONKONAL, his × mark.

Witness to his mark:

PETER CHURCH,

United States Interpreter.

A. W. LAVENDER.

Subscribed and sworn to before me this 13th day of April, 1892.

A. W. LAVENDER,

United States Treasury Agent.

Deposition of Billy Nah-hoo, trader in oil and fisherman.

PELAGIC SEALING.

Billy Nah-hoo, being duly sworn, deposes and says: I am about 35 years old. Was born at and reside at Killisnoo all my life. Am by occupation a herring fisherman and oil maker, which oil I sell to other tribes of Indians. I have visited all the islands between here and Sitka and in other parts of the sound, and have never seen any fur seal in the waters in my life. Never heard of any fur seal pup being born in the water, nor have I heard of any fur seal hauling up on the land or islands in southeastern Alaska or anywhere else. Had pups been born in the water or seals hauled up on the land on any part of the coast it would certainly be known to the Indians and I would have heard of it. I have nothing more to say.

BILLY ^{his} X NAH-HOO.
mark.

Witness to his mark:

PETER CHURCH,

United States Interpreter.

A. W. LAVENDER.

Subscribed and sworn to before me this 12th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Kesth Riley, laborer, fisherman, trader.

PELAGIC SEALING.

Kesth Riley, being duly sworn, deposes and says: I am 40 years old; born and reside at Killisnoo. Am now working for the white men in summer and catching herring for making oil in the winter. Sell the oil to the other tribes of Indians. I have visited the different islands in the sound, and never knew any fur-seal to be born in the water or on any of the islands in southeastern Alaska. If any seal had hauled up on any of the islands in southeastern Alaska, I should have known it. They would certainly have been seen by some Indians, and they would have reported it to all. Have never seen a fur-seal in Chatham Sound or any of the inlets off the sound in my life. Have got no more to say.

KESTH ^{his} X RILEY.
mark.

Witness to his mark:

PETER CHURCH,

United States Interpreter.

A. W. LAVENDER.

Subscribed and sworn to before me this 12th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent

Deposition of Shucklean, physician, fisherman, trader in oil.

PELAGIC SEALING.

Shucklean, being duly sworn, deposes and says: Was born and have lived at Killisnoo all my life. Am 60 years of age. I was a doctor most of my life, but have given it up, and Experience. I now catch herring and make oil. The oil I sell to the people of other tribes, who come a long ways to purchase it from me. Have been down to Sitka, and on all islands and inlets around Chatham Sound, and have never seen any fur-seal in my life, nor have I ever heard of any fur-seal being Fur seal do not haul up on coast of Chatham Sound. hauled up on any of the islands or rocks around Chatham Sound. Nor have I ever seen any man who said he ever saw a fur-seal pup in his life. Have never seen an Indian belonging to any tribe who said he ever saw or heard of a fur-seal hauling up on the land anywhere in southern Alaska. The Indians who come here to trade with me and our people come long distances, and had there been a fur-seal rookery in any part of Alaska, my people and myself would have known it. I can say no more.

SHUCKLEAN, his x mark.

Witness to his mark:

PETER CHURCH,

United States Interpreter.

A. W. LAVENDER.

Subscribed and sworn to before me this 13th day of April, 1892.

A. W. LAVENDER,

*United States Treasury Agent.**Deposition of Yuan Slanoch, herring fisherman.*

PELAGIC SEALING.

Yuan Slanoch, being duly sworn, deposes and says: Am 35 years old; born and have lived in Killisnoo all my life. My business is that of catching herring and making oil, Experience. and chopping wood. I sell the oil to the people of other tribes. When following my occupation I visit all the islands and inlets of Chatham Sound and have never seen or taken a fur-seal in my life. Nor have I heard of any fur-seal pup being born in the water nor on the land in or around Chatham Sound, No pelagic birth. nor have I ever heard of any fur-seal hauling up on the land or rocks anywhere around Chatham Sound. Do not haul up on coast. The people who I sell oil to come from a long distance, and I have never heard them say that they had seen fur-seal hauled up on the land anywhere, and they would have told me and others of our people had they seen any. I don't know anything more about seals.

his
YUAN X SLANOCH.
mark.

Witness to his mark:

PETER CHURCH,

United States Interpreter.

A. W. LAVENDER.

Subscribed and sworn to before me this 13th day of April, 1892.

A. W. LAVENDER,

United States Treasury Agent.

Deposition of Tchét-Chak, herring-fisher and wood-chopper.

PELAGIC SEALING.

Tchét-Chak, being duly sworn, deposes and says: Was born at Killisnoo and have lived here all my life. Am now a very old man. My occupation is that of a herring-fisher and wood-chopper. Have visited all the islands and inlets in Chatham Sound and other parts of southeastern Alaska. Have never seen fur-seal in the inland waters, nor have I ever heard of any being there, nor have I heard of or seen any haul up on the land, any island, or rock on or off the coast of Alaska. In my business of making herring oil, which I dispose of to the people of the different tribes along the coast, I should have heard of seal being hauled up on any island or rock along the coast of Alaska, had there been any, for it is customary for the people of one tribe to tell the people of another all they know. I have no more to say.

Experience.

Never seen seals in inland waters, nor heard of them hauling up on coast.

TCHÉT-CHAK, his × mark.

Witness to his mark:

PETER CHURCH,

United States Interpreter.

A. W. LAVENDER.

Subscribed and sworn to before me this 12th day of April, 1892.

A. W. LAVENDER,

*United States Treasury Agent.**Deposition of Anna-tlas, chief of Takou Indians.*

HABITS.

Anna-tlas, chief of the Takou tribe of Indians, being duly sworn, deposes and says: Have always been chief of this tribe. Have never been seal hunting in my life. Myself and tribe go to the coast as far as Wrangel and trade with the Killisnoo Indians for oil. Have never seen a fur-seal in all my travels up and down the coast. Have never heard of fur-seal hauling up on any part of the coast. If seal had been hauled up on any part of the coast I should have been told of it by the people of other tribes with whom I have come in contact during the long years of my life. That is all I have to say.

Experience.

Seals do not haul up on coast.

ANNA-TLAS, his × mark.

Witness to his mark:

PETER CHURCH,

United States Interpreter.

A. W. LAVENDER.

Subscribed and sworn to before me this 14th day of April, 1892.

A. W. LAVENDER,

United States Treasury Agent.

TESTIMONY TAKEN AT OR NEAR SITKA.

Deposition of Adam Ayonkee, native scaler at Sitka.

PELAGIC SEALING—MIGRATION.

Adam Ayonkee, being duly sworn, deposes and says: I am about 60 years old; born at and reside in Sitka. Am by occupation a hunter. Hunt seal in summer and deer in winter ever since I was a small boy. Seal are first seen and taken by me each year off Sitka Sound, about the middle of April. Have followed them as far north as Cape Edward, where they disappear about June 30. They are constantly on the advance up the coast. When I was a boy, seal were speared among the islands in Sitka Sound, but now the few that come along the coast we are obliged to go far out to sea in order to get. Have always used a shotgun and rifle in taking seal since a young man. I rarely lose any seal I shoot, as I never shoot at them unless they are very close to the boat. Most all seal that I have killed have been pregnant cows. Have taken a few male seals from 1 to 4 years old, I think. Have never killed an old bull. The sex of seal can not be told in the water. I shoot everything that comes near the boat. When a seal is killed dead, he will sink very quick, which is the reason I never shoot them unless they are so near the boat that I can secure them. Seal are always shot in the head when possible.

Mostly pregnant cows killed.

Indiscriminate killing.

I have noticed that seal have decreased very rapidly in the last three years, owing to too many schooners engaged in sealing along the coast of Alaska and Bering Sea. Have never known of pups being born in the water or anywhere else on the coast outside of the Pribilof Islands. Have never known of fur-seals hauling up on the land on the coast of Alaska. Have seen them haul up on the Pribilof Islands. If pelagic sealing was stopped in Bering Sea and the Pacific Ocean, seals would become plentiful once more and the natives of Alaska could again make money by catching them.

Decrease.

Not born in water or on coast.

Fur seals do not haul up on the Alaskan coast.

Haul up on Pribilof Islands.

Protection.

his
ADAM X AYONKEE.
mark.

Witness to his mark:

GEORGE KASTROMETINOFF,
United States Court Interpreter.

Subscribed and sworn to before me this 9th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Charles Campbell, captain schooner Umbrina, sealing in North Pacific and Bering Sea.

PELAGIC SEALING, MIGRATION.

Charles Campbell, captain of the British schooner *Umbrina*, being duly sworn, deposes and says: Have commanded said schooner the last two years. Have been engaged in sealing in the North Pacific Ocean and Bering Sea. First seen and taken seal by me off the Columbia River in February. The seal are constantly advancing up the coast. We follow the seal up the coast until we enter the sea about July 6. The Parker-shotgun is used by me exclusively. I have seven hunters and seven boats; twenty-three men all told on the vessel. Experienced hunters lose very few seal that are shot, but beginners lose a great number. Majority of seals taken are females with young. We caught a large number of pups in the early part of the season. Did not take particular notice of the sex. Have killed cows with milk about 60 miles off the Pribilof Islands. A few old bulls were killed by me last season. Can not distinguish the sex of the seal in the water, except in the case of an old bull which is told by its size. Use no discrimination but kill everything that comes near the boat in shape of a seal. Have never known any seal pups to be born in the water, nor on the coast anywhere outside of the Pribilof Islands. Have never known seal to haul up anywhere outside of the Pribilof Islands.

Majority taken, females with young.

Nursing females killed.

Indiscriminate killing.

Pups not born in water nor anywhere outside Pribilof Islands.

Do not haul up outside Pribilof Islands.

CHARLES CAMPBELL.

Subscribed and sworn to before me, this 30th day of April, 1892.

A. W. LAVENDER,

United States Treasury Agent.

Deposition of Simeon Chin-koo-tin, sealer.

PELAGIC SEALING.

Simeon Chin-koo-tin, being duly sworn, deposes and says: I am 60 years old; was born and reside at Sitka, and am by occupation a seal hunter; have been engaged in that business since I was a small boy. About the middle of April the first seal are seen and taken by me off Sitka Sound. At this time the seal are advancing up the coast. In early days the spear was used in taking seal, but now the shotgun and rifle are used exclusively. No seal were lost when struck with spear. Fifty per cent are lost when killed with shotgun, and a larger proportion are lost when rifle is used. Most of the seals killed by me have been females with young. They sleep more and are less active and more easily captured. The few male seals taken by me I do not know their ages. Quite a number of yearlings are taken, the majority of which are females; have taken a few bulls in my life; sex of the seal can not be told in the water unless it be an old bull. All seal are shot that come near the boat regardless of sex.

Experience.

Migration.

Majority killed, pregnant females.

Indiscriminate killing.

When seal are shot dead they almost instantly sink and are hard to secure; have noticed the seal are decreasing very fast the last four years; too many schooners are hunting them in the open waters of the Pacific Ocean and Bering Sea; have never known or heard of pup seals being born in the water, nor on the land anywhere in Alaska; have never known of any seals hauling up on the land on this coast elsewhere than on the Pribilof Islands. I think that if the schooners were prohibited from hunting seal in the North Pacific Ocean and Bering Sea the seal would soon become plentiful along the coast.

Decrease.

Pups not born in water, nor on land anywhere in Alaska.

Do not haul up else where than on Pribilof Islands.

Protection.

his
SIMEON × CHINKOOTIN.
mark.

Witness to his mark:

GEORGE KASTROMETINOFF,
United States Court Interpreter.

Subscribed and sworn to before me this 7th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Peter Church, scaler.

PELAGIC SEALING.

Peter Church, being duly sworn, deposes and says: I was born at Sitka; am 22 years old, and am by occupation a hunter. Have been engaged in sealing the past four years in the North Pacific Ocean, always in the capacity of a hunter. Have first taken seal off Sitka Sound the middle of April. Followed the seal up the coast as far as Yakutat, where they disappeared the last of June. Have always used shotgun and rifle. I think about 50 per cent of the seals shot with shotgun are lost, and a greater proportion are lost when shot with a rifle. Most of the seals taken by me have been females with young. I think the female seal is less active and more easily approached. A few male seals have been taken by me, their ages ranging from one to five years old. Killed three large bulls during my life. The sex of the seal can not be distinguished in the water. I shoot everything that comes near enough. If seal are instantly killed they will sink very quick, and are harder to secure under those conditions than they would be if badly wounded. Have noticed that seal are becoming very scarce on the coast the last few years. The cause of the scarcity of the seal, I think, is that too many schooners in the North Pacific Ocean and Bering Sea, and the indiscriminate killing of females with pup in the water. Never have known any pups to be born in the water, nor have I ever known fur-seal to haul up on the land anywhere on the coast of Alaska. I think all pelagic sealing should be stopped, so that seal would have a chance to increase.

Experience.

Migration.

Mostly pregnant females taken.

Decrease.

Indiscriminate killing.

Pups not born in water.

Do not haul up on land.

Protection.

PETER CHURCH.

Subscribed and sworn to before me this 26th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of John C. Clement, sealer, one season on Mollie Adams.

PELAGIC SEALING.

John C. Clement, being duly sworn, deposes and says: I reside at Sitka; am 25 years old. Have hunted seal one season on the schooner *Mollie Adams* in the North Pacific Ocean and Bering Sea. Have caught seal all along the coast from Cape Flattery to the Pribilof Islands, using the shotgun exclusively. Over 50 per cent are lost when shot with shotgun. Most of the seals taken are cows with pup. The sex can not be told in the water, and all are shot that come near the boat. No discrimination is used; hunters kill everything they see. Never have known or heard of pups being born in the water or elsewhere outside the Pribilof Islands. Have never known or heard of fur-seals hauling up on the land on this coast elsewhere than the Pribilof Islands. I think the indiscriminate killing of seals in Bering Sea is the cause of their scarcity along the coast, and if pelagic sealing was stopped altogether, the seal would then become plentiful.

JOHN C. CLEMENT.

Subscribed and sworn to before me this 8th day of April, 1892.

A. W. LAVENDER,
*United States Treasury Agent.**Deposition of Hoonah Dick, subchief of Hooniah Indians.*

PELAGIC SEALING.

Hooniah Dick, being duly sworn, deposes and says: Born at Sitka; am about 40 years old. Have been living in Hoonah ten years, and am now subchief of the Hoonah Indians. Have hunted seal for three years from Cross Sound to Yakutat. Always use the shotgun and rifle for taking seal. Always shoot the seal close to the boat and rarely lose one, but when shot at with the rifle I lose a good many. I have never known of a pup seal being born in the water or on the land anywhere in Alaska outside of the Pribilof Islands. Never have heard of any fur-seal being hauled up on the coast or rocks of Alaska other than on the Pribilof Islands. Have traveled from Hoonah to Fort Simpson and north as far as Chilcat through all the channels and sounds in southeastern Alaska, and I come in contact with the people of many tribes of Indians and I have never heard them say that they had ever seen or heard of a fur-seal being hauled up on any part of the coast or on any of the islands along the coast of Alaska. Had they ever known of a rookery of fur-seal in any part of Alaska I should have known it. I know no more about seal than what I have said.

HOONAH ^{his} X DICK.
mark.

Witness to his mark:

PETER CHURCH,
United States Interpreter.

Subscribed and sworn to before me this 15th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of John Dohrn, sealer (boat-puller).

PELAGIC SEALING.

SITKA, ALASKA, May 18, 1892.

John Dohrn, being duly sworn, deposes and says: That he is a native of Germany, and has been engaged in seal hunting during the present season on the schooner *Laborador*, of Vancouver, British Columbia, in the capacity of boat-puller; that to the best of his knowledge and belief about eight of every ten seals killed in pelagic sealing are females, and that twice as many seals are lost as are captured.

Experience.

Eighty per cent
taken females.

Waste of life.

JOHN DOHRN.

Sworn and subscribed before me this 18th day of May, 1892.

[SEAL.]

CHAS. H. ISHAM,

*Deputy Clerk, United States District Court of Alaska.**Deposition of James Gondowen, native sealer.*

PELAGIC SEALING.

James Gondowen, being duly sworn, deposes and says: Am 30 years old; born at Killisnoo and reside at Sitka. Am by occupation a hunter, hunting seal every summer and deer every winter since I was a small boy. Hunted one season on schooner *Sitka*. Have hunted seal between Sitka and Cross sounds. They first appear about middle of this month and disappear about the last of June. Have always used shotgun and rifle for taking seal. About 50 per cent are lost when killed with a shotgun and a larger per cent when rifle is used. Most of the seals killed are cows with pup. A few males are killed averaging from 1 to 4 years old. Have killed but one old bull in my life. A few yearlings are taken, the majority of which are females. Can not distinguish sex of seal in the water. Hunters use no discrimination, and killed everything that comes near the boat. When seal are shot in the head and instantly killed they will sink at once and are hard to secure under those conditions. Have noticed that seals are decreasing the last four years, cause, I think, by too many white men hunting seal in the waters of the Pacific Ocean and Bering Sea. Have never known any pups to be born in the water or on the land around the coast of Alaska. Never known any fur-seal to haul up on the land or on the coast elsewhere than on the Pribilof Islands.

Experience.

Migration.

Mostly pregnant females killed.

Decrease.

Pups not born in water or on land around Alaska.

Do not haul up except on Pribilof Islands.

Protection.

Think if all pelagic sealing was stopped in Bering Sea and the North Pacific Ocean seal would again become plentiful.

JAMES ^{his} × GONDOWEN,
mark

Witness to his mark.

GEORGE KASTROMETINOFF,

United States Court Interpreter.

Subscribed and sworn to before me this 11th day of April, 1892.

A. W. LAVENDER,

United States Treasury Agent.

Deposition of W. P. Griffith, sealer.

PELAGIC SEALING.

SITKA, ALASKA, May 18, 1892.

W. P. Griffith, being duly sworn, deposes and says he is American born, and has been engaged in sealing during the present season on the schooner *Laborador*, of Vancouver, British Columbia, in capacity of hunter. To the best of his knowledge and belief about seven of every ten seals killed in pelagic sealing are females. That in pelagic sealing twice as many seals are lost as are captured.

Experience.

70 per cent taken females.

Waste of life.

W. P. GRIFFITH.

Sworn and subscribed before me this 18th day of May, 1892.

[SEAL.]

CHAS. H. ISHAM,

*Deputy Clerk, United States Dist. Court of Alaska.**Deposition of E. Hofstad, sealer and mate of schooner Clara.*

PELAGIC SEALING.

E. Hofstad, being duly sworn, deposes and says: I reside at Sitka. My present occupation is that of a seal hunter. Am at present mate of the sealing schooner *Clara*, of Sitka. Have hunted seal in the North Pacific Ocean for the past three years. Have seen and taken the first seal off the west coast of Vancouver Island in April. The seals then are on the advance up the coast. I now use shotgun exclusively for taking seal. I think that 66 per cent of the seal shot with shotguns are lost. When rifles are used a still larger per cent is lost. Most all seals taken are females with young. I think the females sleep more on the water and are less active and are more easily taken than the male. A few male seal are taken. I would say they are generally 3 or 4 years old. A few yearlings are killed, mostly females. About five bull seal are killed out of every hundred taken. The sex of seal can not be distinguished in the water unless it be an old bull. No discrimination is used in taking seal; everything that comes near the boat is killed. When seal are killed dead they sink very quick, especially if killed when they first put their head above water, as they do not have a chance to take breath. Most all seal are shot in the head when it is possible to do so. Seals have decreased very fast the last three years. The decrease is caused, I think, by the indiscriminate killing of seals in the water. Have never known a pup to be born in the water or anywhere else on the coast of Alaska. Have never known fur-seal to haul out on the land anywhere on the coast of Alaska. Have never been in Bering Sea. I think that the only way the seal can ever become plenty again is to stop all pelagic sealing in Bering Sea.

Experience.

Have hunted seal

Migration.

Most all pregnant females.

Indiscriminate killing.

Decrease.

No pelagic births.

Do not haul out on land.

Protection.

E. HOFSTAD.

Subscribed and sworn to before me this 7th day of April, 1892.

A. W. LAVENDER,

United States Treasury Agent.

Deposition of Percy Kahiktday, sealer.

PELAGIC SEALING.

Percy Kahiktday, being duly sworn, deposes and says: Am 48 years old; was born at and reside in Sitka. Have hunted seal every summer since I was a small boy. Have never been to Bering Sea. The seals first make their appearance about the middle of April off Sitka Sound, and disappear about July 1. They are then on their way up the coast. The spear and arrow was used to take seal when I was a boy, but now I use the shotgun and rifle. At least 50 per cent are lost when shot with shotgun. When rifle is used a larger proportion of seal are lost. Most of the seal I have taken have been pregnant cows. When the females are with pup they sleep more, are less active in the water, and more easily approached than the male seal. But a very few young male seal are taken by me along the coast. If a seal is killed when its head first comes above water, it sinks at once. Under those conditions they are hard to secure. Seal are always shot in the head when possible, but never miss a shot at them if only a small part of the body is exposed. Have noticed that seal are decreasing very fast the last few years along the coast, caused, I think, by pelagic hunting. Have never known of a fur-seal pup being born in the water, or along this coast. Have never known a fur-seal to haul up on the land anywhere on the Alaskan coast. Think the seals are most all killed by the pelagic seal hunters in the waters of the North Pacific Ocean, so far from the land that the Indian hunters have no chance to get any in canoes, as he only goes a short distance from the shore. And unless this pelagic hunting is stopped in the North Pacific Ocean and Bering Sea the seal will soon all be gone, and the Indian hunters will have to dig clams in order to keep from starving.

Experience.

Migration.

Most all pregnant cows taken.

Decrease.

No pelagic birth.

Do not haul up on coast.

Protection.

PERCY + ^{his}KAHIKTDAY,
mark.

Witness to his mark:

GEORGE KASTROMETINOFF,
United States Court Interpreter.

Subscribed and sworn to before me this 9th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Philip Kashevaroff, sealer.

PELAGIC SEALING.—MIGRATION.

Philip Kashevaroff, being duly sworn, deposes and says: Am 47 years old; born at and reside in Sitka. Am by occupation a mariner. The last year I spent hunting seal on the schooner *Allie Alger*. First seal were seen off Sitka Sound in May by me. We followed the seals as far as Sand Point on Unger Island. The shotgun was used altogether for taking seal.

Experience.

About three seal are secured out of every ten shot. The majority of seal are cows with pup. A few males are taken, about four or five years old. In the winter time some young seal frequent the inside passage. The sex of the seal can not be told in the water unless in the case of an old bull, which is told by its size. We use no discrimination in shooting seal. Everything is killed that comes near the boat regardless of sex. If a seal is shot and killed instantly he will sink very quick. I think the seal are about as plentiful along this coast, but much more scarce farther west. The cause of this scarcity is too much pelagic hunting. Never have seen or heard of pups being born in the water or on the coast outside of the Pribilof Islands. Have never heard of fur-seal hauling up on the land or on the coast elsewhere than on the Pribilof Islands. Last year I was not in Bering Sea, but was on the Russian side. Have taken cow seals full of milk 30 miles from Copper Islands. Did not see any big bulls on Attu Islands. I think if sealing in Bering Sea was stopped and the indiscriminate killing of cows was stopped, seal would again become plentiful along the coast. When I was with the Russian Company I spent six years looking for rookeries, but was unable to find any place where fur-seal hauled out elsewhere than on the Pribilof Islands.

PHILIP KASHEVAROFF.

Subscribed and sworn to before me this 11th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Mike Kethusduck, scaler.

PELAGIC SEALING.

Mike Kethusduck, being duly sworn, deposes and says: Am 50 years old; was born at and reside in Sitka; am by occupation a hunter; have hunted seals every season since I was a small boy; have first seen seal off Sitka Sound about April 15. They all disappear by the last of June. When I first began hunting, spears and arrows were used for sealing. Now the shotgun has come into general use, and a few seals are taken with a rifle. Fully one-half the seal shot with shotguns are lost, and a much larger proportion when the rifle is used. None were lost when struck with a spear. Most of the seals taken by me were females with pup; think the female is more gentle and more easily taken; have taken a few male seal from one to four years old. A very few yearlings have been killed by me, mostly females. The sex of the seal can not be distinguished in the water. Everything is shot that comes near the boat, regardless of sex. Seal have decreased very rapidly along this coast in the last three or four years. The decrease is caused, I think, by schooners using shotguns and rifles and killing mostly female seals; have never known any pups to be born in the water or on the coast of Alaska;

have never known any fur-seal to haul out on the land on the coast of Alaska; have heard that they do haul out on the Pribilof Islands. If pelagic seal hunting was stopped in the waters of the Pacific Ocean and Bering Sea, seal would become plentiful once more.

Seals do not haul out on Alaskan coast.

Prohibition.

his
MIKE X KETHUSDUCK.
mark.

Witness to his mark:

GEORGE KASTROMETINOFF,
United States Court Interpreter.

Subscribed and sworn to before me this 8th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Charlie Klananeck, sealer.

PELAGIC SEALING.

Charlie Klananeck, being duly sworn, deposes and says: I was born at Sitka, and am now a very old man. Have lived at Wrangel twenty years; have been a hunter all my life. A long time ago I hunted seal with a spear, but of late years have used the shotgun. When seal were struck with a spear none were lost; a great many are lost when the shotgun is used. Hunters always kill all seal that come near the boat, regardless of sex. Seal are becoming very scarce on the coast. The reason they are becoming so scarce is that hunters shoot them with guns, and kill cows with pup. Have never known of fur-seal pups being born in the water or on the coast of Alaska around here. Have never seen any fur-seal hauled out on the land in any part of Alaska. I think the seal are hunted so much by schooners that they have no chance to get their food or anything else, and unless this is stopped seal will soon all be gone, and none will be left for the Indians.

Experience.

Indiscriminate killing.

Decrease.

No pelagic birth.

Do not haul up on land.

Protection.

his
CHARLIE X KLANANECK.
mark.

Witness to his mark:

J. M. POTTER,
A. W. LAVENDER.

Subscribed and sworn to before me this 9th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of John Kowineet, sealer.

PELAGIC SEALING.

John Kowineet, being duly sworn, deposes and says: Am 48 years old; born at and reside in Sitka; occupation, a hunter. Have hunted seals every season since I can remember.

Experience.

First seen and taken seal off Sitka Sound; about the middle of April each year they make their appearance. They are then working northward and westward. In early days I used spear altogether. Of late years the shotgun and rifle have been used exclusively. About 60 per cent of the seal are lost when shot with shotgun. When rifles are used a much larger proportion is lost. Most all seal killed by me have been cows with pups. Think cows are much more plentiful on the coast; sleep more and are more easily captured than the male seal. Have not killed a bull seal for three years. I have taken a few yearlings, mostly females. I always kill every seal that comes near the boat; discrimination. If seal are shot dead, they sink at once and it is hard to secure them. Seal are shot in the head when it is possible to do so. Have noticed that seal are decreasing very fast the last few years. I think the cause of the decrease is that there are too many schooners hunting seal in Bering Sea and along the North Pacific coast. Have never known any pups to be born in the water, or anywhere else on the coast, but have heard that they are born on the Pribilof Islands and nowhere else. Have never known any seal to haul up on land or on the coast of Alaska, but have heard that they haul up on the Pribilof Islands. I think if all vessels were stopped from hunting seal in Bering Sea and the Pacific Ocean, the seal would again become plentiful.

his
JOHN X KOWINEET.
mark.

Witness to his mark.

GEORGE KASTROMETINOFF,
United States Court Interpreter.

Subscribed and sworn to before me this 9th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of George Lacheek, sealer.

PELAGIC SEALING.

George Lacheek, being duly sworn, deposes and says: Am 40 years of age; born at and live in Sitka. Am by occupation seal hunter in summer and deer hunter in winter. Have hunted seal every season since a small boy. Have always hunted off Sitka Sound. The seal generally make their appearance about April 15 of each year. They are then advancing up the coast and disappear entirely about July 1. In early days spear and arrow was used exclusively, but now the shotgun and rifle are used instead. About 50 per cent of the seals are lost when shot with shotguns; a much larger per cent are lost when shot with a rifle. Most all seals that I have taken were cows with pup. Think cows are less active and require more sleep than the young male seal. A few male seal have been taken by me from one to four years old.

Experience.

Migration.

Majority taken pregnant females.

Have never killed but few old bulls in my life. The only seal that can be distinguished in the water is the old bull, which can be told by its size. Everything in shape of seal that comes near the boat are killed if possible, regardless of sex. Seal, when instantly killed, will always sink quick. I always shoot seal in the head when possible. Seal are not nearly as plentiful as in former years; have noticed the decrease in the last three or four years. Think the cause of the decrease is the great number of schooners sealing in the North Pacific Ocean and Bering Sea. Have never heard of pups being born in the water or on the land along the coast of Alaska. Have never known of fur-seals hauling up on the land on the coast of Alaska, but have heard that they haul up on the Pribilof Islands. I think if schooners were prohibited from sealing in the open waters of Bering Sea and the North Pacific Ocean, seal would again become plentiful along this coast.

Decrease.

No pelagic birth.

Fur seals do not haul up on the Alaskan coast.

Protection.

GEORGE ^{his} X LACHEEK.
mark.

GEORGE KASTROMETINOFF,
United States Court Interpreter.

Subscribed and sworn to before me this 8th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Capt. A. W. Lavender, special Treasury agent on St. George Island.

PELAGIC SEALING.

Personally appeared before me, Capt. A. W. Lavender, who being duly sworn, deposes and says: I am 49 years of age, a citizen of the United States, and a resident of Scotland, South Dakota. I am now, and have been for two years past, employed as special agent of the Treasury Department, assigned to duty as agent in charge of St. George Island. While in Unalaska in September, 1891, awaiting transportation to San Francisco, I had an opportunity to examine personally the seal catch of the steam-sloop *Challenge*, which had been warned out of the sea, and was undergoing repairs at the harbor named. The catch amounted to 172 skins, which were all taken in Bering Sea at various distances from the seal islands, and of this number only three were those of male seals, one of these being an old bull, and the other two being younger males.

Experience.

Challenge, 1891.

Catch in Bering Sea.

Three male seals out of a catch of 172.

A. W. LAVENDER.

Subscribed and sworn to before me this 7th day of June, 1892.

[SEAL.]

C. L. HOOPER,
Notary Public, District of Alaska.

Deposition of George McAlpine, sealer (boat-steerer).

PELAGIC SEALING.

George McAlpine, being duly sworn, deposes and says: I reside at Juneau. Spent the last season on the *Allie I. Alger*, hunting seal, as boat-steerer. First seal were taken off Cape Flattery about the middle of February. We followed them up the coast as far as Mount Edgecumbe. The last of April we went into Sitka, and had taken 402 seals. The shotgun was used exclusively. Over 50 per cent of the seal shot were lost. Most of the seal taken were females with pup. A few male seal were killed, ages ranging from 1 to 5 years. One old bull was taken. Everything was killed that came near the boat; we did not use any discrimination. Cow seal with pup will float lighter than a male when killed. Never knew of pups being born in the water nor anywhere else. Never knew any fur-seal to haul up on the land along the coast of Alaska. I think all pelagic sealing should be stopped for a few years in order to give the seals a rest, for they are now hunted eight months in a year, and if we expect them to increase again, we must stop hunting them in Bering Sea and the North Pacific Ocean.

G. MCALPINE.

Subscribed and sworn to before me this 14th day of April, 1892.

A. W. LAVENDER,
*United States Treasury Agent.**Deposition of J. D. McDonald, sealer (master).*

PELAGIC SEALING.

J. D. McDonald, being duly sworn, deposes and says: I reside at Sitka. Own and command the sealing schooner *Adventure*. Am by occupation a miner and hunter. Have been engaged in sealing two years. Have hunted from San Francisco to Kodiak. First start to hunt about the last of March. They are constantly on the move up the coast. Have always used the shotgun for sealing. I think we lose about 66 per cent of the seals shot with shotguns. Most of the seals taken by me have been females with pup. The female seals are easier killed than the male, and we aim to get them. A few yearlings have been killed by me, mostly females. The sex can not be distinguished in the water unless it be the case of an old bull, which is distinguished by its size. Everything is killed in the shape of a seal that comes near the boat. We always shoot seal in the head when possible. If head is not exposed, we shoot them in the most exposed part of their body. When a seal is killed instantly, he will sink at once, and is hard to secure under those conditions. Have noticed a decrease in seal along the coast, and it is the general opinion that they are decreasing very fast. There can be but

one reason for the decrease, and that is they are hunted too much in the open waters. Have never known pups to be born in the water or on the coast of Alaska or on the islands adjacent thereto, and I have spent 5 years on the coast of Alaska. Have never known or heard of seal hauling up on the islands or main coast of Alaska, other than on the Pribilof Islands. Have seen a few pups in Cordova Bay late in December, where they were driven by strong southeast gales prevailing on the coast at that time. Think if all pelagic sealing was stopped the seal would become plentiful again. If they keep on hunting them they will soon be exterminated.

No pelagic birth.

Do not haul up on coast.

Protection.

J. D. McDONALD.

Witness:

A. W. LAVENDER.

Subscribed and sworn to before me this 12th day of April, 1892.

A. W. LAVENDER,
*United States Treasury Agent.**Deposition of James McKeen, sealer (master).*

PELAGIC SEALING.

James McKeen, being duly sworn, deposes and says: I reside at Sitka and am by occupation a seaman and seal-hunter. Have been engaged in catching seals the last five years, most of the time as captain of a schooner. Have seen and taken the first seal off Cape Flattery. When seal are taken off Cape Flattery, Indian hunters were employed, who used spears. Farther west, the shotgun was used. No seal are lost that are struck with spears. With a shotgun about 50 per cent are lost. About all the seal taken are females with young. Very few young male seal are seen on the coast. A few yearlings are caught, mostly females. Sex of seal can not be told in the water. We use no discrimination and kill all seal that come near the boat. Seal are not shot in any particular place; shoot them in the head if possible, if not, in the body. Seal are not as plentiful on the coast as formerly. Have noticed the decrease in the last three years; caused, I think, by the indiscriminate killing of female seal. Have never known any pups to be born in the water, or elsewhere outside of the Pribilof Islands. Have never known any fur-seal to haul up on the coast anywhere, outside of the Pribilof Islands. I think that all pelagic seal hunting in Bering Sea should be stopped, or the seal will soon become exterminated.

Experience.

Migration.

Mostly females with young taken.

Indiscriminate killing.

Decrease.

No pelagic birth

Do not haul up on coast.

Protection.

JAMES MCKEEN.

Subscribed and sworn to before me this 6th day of April, 1892.

A. W. LAVENDER,
United States Special Agent.

Deposition of Martin Singay, sealer.

PELAGIC SEALING.

Martin Singay, being duly sworn, deposes and says: Am about 58 years old. Born at and reside in Sitka and am by occupation a hunter. Have hunted seal every summer and deer every winter since I was a small boy. Have never been in Bering Sea. Have hunted seal off Sitka Sound, where they first make their appearance about April 15, and remain in greater or less numbers till the last of June. In early days I used the spear, but now I use the shotgun and rifle exclusively. When I used a spear none were lost that were struck. When shotgun is used nearly 50 per cent are lost; when rifle is used a still larger percentage is lost. The last three years about half the seals I have killed were females with pup. A few male seals and yearlings have been killed by me. Have killed but four large bulls in the last four years. I can not tell the sex of a seal in the water, but shoot everything that comes near the boat in shape of a seal. Seal have become very scarce the last few years. Too many white men are engaged in killing seal. Never known or heard of pups being born in the water, but have heard of them being born on the Pribilof Islands. Never knew of any fur-seals to haul up on the land along the coast of Alaska. I think that if schooners were stopped from sealing in Bering Sea and the North Pacific Ocean seal would again become plentiful.

Experience. Migration. Half females with pup killed. Indiscriminate killing. No pelagic birth. Do not haul up on Alaskan coast. Protection.

MARTIN ^{his} × SINGAY.
mark.

Witness to his mark:

GEORGE KASTROMETINOFF,
United States Court Interpreter.

Subscribed and sworn to before me this 9th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Jack Sitka, sealer.

PELAGIC SEALING—MIGRATION.

Jack Sitka, being duly sworn, deposes and says: Am 56 years old. Was born and reside in Sitka. Am a hunter by occupation. Have hunted seal every season since I was a boy. Seal first make their appearance about April 15 off Sitka Sound, and disappear about July 1. When I was a boy the spear and arrow was used for sealing, but now the shotgun and rifle are used exclusively. No seal were lost when struck with spear or arrow. Fully 50 per cent of seal shot with shotgun are lost and a much larger per cent are lost when shot with a rifle. Most of the seals taken are cows with young. I think they are taken because they are more tame and less active and more easily approached. A few male seal are taken, their ages being from

Experience. Mostly pregnant females killed.

one to four years. A few yearlings are taken. A very few old bulls have ever been taken by me; the last three or four years have taken but three old bulls. Hunters use no discrimination, but shoot everything that comes near them. Their sex can not be told unless in the case of an old bull, which is distinguishable by its size. When seal are shot as soon as they put their heads above water, they sink immediately and are hard to secure. Always shoot seal in the head when possible. If not possible to shoot them in the head, then I shoot them in the most exposed part of their bodies. Have noticed a large decrease in seal the last three years, caused I think, by pelagic sealing in Bering Sea and the North Pacific Ocean. Have never known pups to be born in the water or anywhere else on the coast. Never known fur-seals to haul up on the land. Have heard that they do haul up on the Pribilof Islands. I think the schooners should be prohibited from sealing in the North Pacific Ocean and Bering Sea. If that was done, seal would become plentiful along the coast.

Indiscriminate killing.

Decrease.

Ocean. Have

No pelagic birth. Do not haul up on land.

Protection.

his
JACK × SITKA.
mark.

Witness to his mark:

GEORGE KASTROMETINOFF,
United States Court Interpreter.

Subscribed and sworn to before me this 8th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Michael Thlkahdaynahkee, sealer.

PELAGIC SEALING.

Michael Thlkahdaynahkee, being duly sworn, deposes and says: Am about 60 years old; born at and live in Sitka. Have been a seal hunter all my life. Have first seen and killed seal off Sitka Sound about April 15, and disappear entirely about July 1. When I was a young man the spear and arrow were used, but of late years the shotgun and rifle are used exclusively. Very few seal were lost when struck with spear or arrow, but when seal are shot with shotgun over 50 per cent are lost. A much larger per cent are lost when seal are shot with rifles. Most of the seal taken by me were cows with pup. The cows are less active, sleep more, and are more easily captured. A few male seal have been taken, from 1 to 4 years old. But very few old bulls have ever been taken by me. Have killed a few yearlings every year. All seal are killed that come near the boat, regardless of their sex. I never look to see whether I have killed a male or female seal until I have the seal dead in the boat. Seal have been growing scarce along the coast the last four years. Think there are too many schooners engaged in sealing in the North Pacific Ocean and Bering Sea. Have never known pups to be born in the water, or on the land elsewhere than the Pribilof Islands. Have never known any fur-seals to haul up on the land or on the coast else-

Experience.

Migration.

Mostly pregnant females taken.

Indiscriminate killing.

Decrease.

in the North

No pelagic birth.

Do not haul up on coast.

Protection. where than the Pribilof Islands. I think if pelagic hunting was stopped in Bering Sea that seal would become plentiful along the coast of southern Alaska, and we Indians could again catch plenty of them with the spear, which is a much better way to capture seal than by shooting them with shotguns, for none are lost when struck with a spear.

Witness: MICHAEL ^{his} X ^{mark.} THLKAHDAYNAHKEE.
 GEORGE KASTROMETINOFF,
United States Court Interpreter.

Subscribed and sworn to before me this 8th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Charlie Tlaksatan, sealer.

PELAGIC SEALING.

Charlie Tlaksatan, being duly sworn, deposes and says: I am 43 years old; was born at Sitka, Alaska. Have hunted seal by myself since I was a boy, and when very small went sealing with my father. Seal have been seen and taken on the coast by me from the 10th of April till the 4th of July. At the beginning of the season they are plentiful, but scarce at the close of the season. They are constantly going north along the coast. When I first began hunting I used a spear and bow and arrow, but now the shotgun is used exclusively. When seal were struck with a spear none were lost; lose about 50 per cent when killed with shotgun. A much larger per cent is lost when rifle is used, as the seal sink very quickly after being shot. Most of the seals taken on this coast are cows with young. Cow seals sleep sounder on the water, and are less active and are easily captured. Quite a large number of yearlings are taken, most of which are females. The sex of the seal can not be told in the water when hunting. We use no discrimination, but kill everything in the shape of a seal that comes near the boat. When seal are shot dead they sink very rapidly. Seal are always shot in the head when it is possible to do so. When spear was used seal were very plentiful; since shotgun is used they are becoming very scarce. Have noticed a large decrease the last four years. I think that pelagic seal hunting in Bering Sea is the cause the seal becoming scarce along the coast. Never knew of pups being born in the water. Have never known fur-seal to haul up on the land or on the coast anywhere in Alaska. I think if pelagic hunting is not stopped in Bering Sea the seal will soon become exterminated.

^{his}
 CHARLIE X ^{mark} TLAKSATAN.

GEORGE KOSTROMETINOFF,
United States Court Interpreter.

Subscribed and sworn to before me this 7th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Peter Trearsheit, sealer (master).

PELAGIC SEALING.

Peter Trearsheit, being duly sworn, deposes and says: I am 27 years old and reside at Sitka. Am by occupation a seaman and seal hunter. Have been engaged in catching seal three seasons. Last season I commanded the sealing schooner *Sitka*, of Sitka. Took seal along the coast as far as Yakutat. First seal were seen and caught last year off Sitka Sound and last year off Salisbury Sound in April and May. The seal are working to westward all the time. Have always used a shotgun to take seal. About 60 per cent of the seal shot with shotgun are lost. A much larger per cent are lost when rifle is used. The seals taken by me have been females mostly with pup. Have never killed a bull in my life. A few yearlings are taken, all of which are females. The sex of the seal can not be told in the water. Hunters use no discrimination and everything in the shape of a seal that comes near the boat is killed. When seal are asleep lying with their heads on the water and are killed, they most always float, but if shot as they put their heads out of water they sink almost immediately. Always shoot a seal in the head when it is possible to do so. Never heard of nor seen pups born in the water or on the coast of Alaska, outside of Pribilof Islands. Have never seen or heard of seals hauling up on the coast, elsewhere than on the Pribilof Islands. They very seldom come nearer this coast than 20 miles, when advancing north towards Bering Sea. I think if sealing was stopped in Bering Sea that seal would become more plentiful along the coast, and if it is not stopped the herd will soon be destroyed.

Experience.

Migration.

Mostly pregnant females taken.

Indiscriminate killing.

Never heard of pelagic birth.

Do not haul up on coast.

Protection.

PETER TREARSHEIT.

Subscribed and sworn to before me this 8th day of April, 1892.

A. W. LAVENDER,

*United States Treasury Agent.**Deposition of James Unatajim, sealer.*

PELAGIC SEALING.

James Unatajim, being duly sworn, deposes and says: I reside in Sitka; am by occupation a seal hunter; have been engaged in that business since I was a small boy. I am now about 38 years old. Have never been in Bering Sea; have always hunted seal along the coast of Alaska. The seal first make their appearance on this coast off Sitka Sound. They are then advancing up the coast. When I first began to hunt spear and arrow were used exclusively; the shotgun is now used by the Indian hunters for the same purpose in lieu of the spear and arrow. When the spear was used all seal speared were secured. About 50 per cent of the seal are lost when shot with shotguns. Whenever I have used a rifle for shooting seal a much larger proportion of those killed have been lost on account of shooting them at a

Experience.

Migration.

longer distance from the boat. Most of the seal taken by me have been females with pup. I think the female is more gentle, sleeps more, and is more easily captured. A few male seal have been taken by me, ages ranging from 1 to 4 years old, I should think. Some yearlings have been taken, a majority of which were females also. Very few old bulls have been killed by me. Sex of seal can not be distinguished in the water, except in the case of an old bull, which can be told by its size. No discrimination is used in taking seal; everything that comes near the boat is shot at. If the seal are instantly killed they sink at once and are hard to secure. Seal are always shot in the head when possible. Have noticed the seal have been decreasing along the coast the last four years. Think the cause of the decrease is that there are too many schooners engaged in pelagic sealing in Bering Sea. Have never seen or heard of pups being born in the water or on the land on the coast of Alaska. Have heard that pups are all born on the Pribilof Islands. Have never known or heard of seal hauling up on the land on the coast of Alaska. Have heard that they do haul up on the Pribilof Islands. Think if sealing by the schooners in the open waters of the North Pacific and Bering Sea was prohibited, the seal would again become plentiful along the coast.

Mostly all taken pregnant females.

Indiscriminate killing.

killed they sink

Decrease.

Think the cause

No pelagic birth.

the land on the

Do not haul up on Alaskan coast.

lands. Think if

Protection.

his
JAMES X UNATAJIM.
mark.

Witness:

GEORGE KOSTROMETINOFF,
United States Court Interpreter.

Subscribed and sworn to before me this 8th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Rudolph Walton, sealer.

PELAGIC SEALING.

Rudolph Walton, being duly sworn deposes and says: I am 25 years of age; born at Sitka; am at present on the police force. Have hunted seal three seasons, 1889, 1890, and 1891, around Biorka Island. Have seen and taken seal from the middle of April to the middle of May. They are on their way north at that time. I use shotgun and rifle to take seal. Migration. About 50 per cent are lost when shot with shotgun; when rifle is used a much larger per cent is lost. The majority of seal taken are cows. Cows are more easily captured because they have pups. A few yearlings are killed, mostly females. Sex of seal can not be distinguished in the water. No discrimination is used in seal hunting; all are killed that come near. Seal are decreasing on the coast. Have noticed they have decreased rapidly the last two years. The decrease, I think, is caused by the indiscriminate killing of female seals. Some seal when shot and killed dead sink at once. Have never known a pup to be born in the water. I have never known of a pup seal being born

Experience.

around Biorka Island.

Migration.

Majority taken pregnant females.

Indiscriminate killing.

Decrease.

The decrease, I

No pelagic birth.

on the rocks of the coast anywhere. Have heard they are born on the Pribilof Islands. Have never known fur-seal to haul up on the coast on anywhere else outside of the Pribilof Islands. Think that all pelagic seal-hunting should be stopped in Bering Sea in order to keep the seal from being exterminated.

Do not haul up on coast.

Protection.

RUDOLPH WALTON.

Subscribed and sworn to before me this 7th day of April, 1891.

A. W. LAVENDER,
United States Treasury agent.

Deposition of Charlie Wank, sealer.

PELAGIC SEALING.

Charlie Wank, being duly sworn, deposes and says: I am 30 years old. Was born at and reside at Sitka. Am by occupation a seal hunter. Have been catching seal most all my life. First seal are seen and taken by me off Sitka Sound. When I was a boy seal came in to the sound very close, but now I have to go a long ways to get them. Seal do not stop off the sound long, but are constantly on the move north and west. The spear was used in early days, but now seal have become scarce and shotgun and rifle is used exclusively. When the spear was used no seal were lost. Now a great many are lost when shot with a shotgun and rifle. Most all seals taken are females with young. They are less active, sleep more, and are easier captured. What few male seals are taken are 1, 2, 3, and 4 years old. Quite a number of yearlings are taken, mostly females. The sex of seal of same age can not be distinguished in the water. The only seal that can be distinguished is an old bull. We use no discrimination in seal hunting; everything is killed that comes near the boat. Pelagic hunters have become so plentiful and seals have become so wild that we are obliged to take long shots at them. When seal are killed dead they sink almost instantly. All seal are shot in the head when it is possible to do so. Have noticed the seal are decreasing very fast, particularly the last four years, caused by the indiscriminate killing of seal by schooners in the waters of the North Pacific Ocean and Bering Sea. Never have known of pups being born in the water, nor elsewhere on the coast of Alaska. Have never known of any seal to haul up on the land or on the coast of Alaska. Have heard that they do haul up on the Pribilof Islands. Think if all pelagic seal hunting was stopped, the seal would increase along the coast and become plentiful once more.

Experience.

Migration.

Most all females taken pregnant.

Indiscriminate killing.

Decrease.

No pelagic birth.

Do not have up on the coast.

Protection.

his
CHARLIE X WANK.
mark.

Witness to his mark:

GEORGE KOSTROMETINOFF,
United States Court Interpreter.

Subscribed and sworn to before me this 7th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of P. S. Weittenhiller, sealer (master).

PELAGIC SEALING.

P. S. Weittenhiller, being duly sworn, deposes and says: I have resided at Sitka the past nine years. Am now owner of the sealing schooner *Clara* and have engaged in sealing this season. I first took seal off Sitka Sound during the month of March. Have done my sealing all this year between Cape Edgecumbe and Cross Sound. My hunters use shotgun exclusively. They carry a rifle with them in the boat but have not used one this season to my knowledge. I think as near as I can estimate, about $33\frac{1}{3}$ per cent of the seals shot are lost. Out of 60 seal taken so far this season 46 are females with pup and 14 were males. Only 1 yearling seal has been taken this season. It is my opinion that female seal are more easily captured and appear to be more tame than the male seal, and I think sleep more. Only 1 old bull was taken this season among the males. I should think the male seal taken this year were between 2 and 3 years old. The sex of a seal can not be told in the water except it is an old bull. Hunters use no discrimination, but kill everything that comes near the boat. Hunters shoot all seal in the head when it is possible to do so and take their chances of its sinking before they can reach them. From what I know seals have been decreasing very fast in recent years. Think the decrease is caused by the indiscriminate killing in the North Pacific Ocean and Bering Sea. I have never known any pups to be born in the water or anywhere else except on the Pribilof Islands. I have never known any fur-seal to haul up anywhere on the land on the coast of Alaska. I have never been in Bering Sea. I think sealing should be prohibited for four or five years in order to give them a chance to multiply and become as plentiful as they formerly were.

Experience. of the sealing schooner *Clara* and have engaged in sealing this season. I first took seal off Sitka Sound during the month of March. Have done my sealing all this year between Cape Edgecumbe and Cross Sound. My hunters use shotgun exclusively. They carry a rifle with them in the boat but have not used one this season to my knowledge. I think as near as I can estimate, about $33\frac{1}{3}$ per cent of the seals shot are lost. Out of 60 seal taken so far this season 46 are females with pup and 14 were males. Only 1 yearling seal has been taken this season. It is my opinion that female seal are more easily captured and appear to be more tame than the male seal, and I think sleep more. Only 1 old bull was taken this season among the males. I should think the male seal taken this year were between 2 and 3 years old. The sex of a seal can not be told in the water except it is an old bull. Hunters use no discrimination, but kill everything that comes near the boat. Hunters shoot all seal in the head when it is possible to do so and take their chances of its sinking before they can reach them. From what I know seals have been decreasing very fast in recent years. Think the decrease is caused by the indiscriminate killing in the North Pacific Ocean and Bering Sea. I have never known any pups to be born in the water or anywhere else except on the Pribilof Islands. I have never known any fur-seal to haul up anywhere on the land on the coast of Alaska. I have never been in Bering Sea. I think sealing should be prohibited for four or five years in order to give them a chance to multiply and become as plentiful as they formerly were.

Pregnant females taken. Only 1 yearling seal has been taken this season. It is my opinion that female seal are more easily captured and appear to be more tame than the male seal, and I think sleep more. Only 1 old bull was taken this season among the males. I should think the male seal taken this year were between 2 and 3 years old. The sex of a seal can not be told in the water except it is an old bull. Hunters use no discrimination, but kill everything that comes near the boat. Hunters shoot all seal in the head when it is possible to do so and take their chances of its sinking before they can reach them. From what I know seals have been decreasing very fast in recent years. Think the decrease is caused by the indiscriminate killing in the North Pacific Ocean and Bering Sea. I have never known any pups to be born in the water or anywhere else except on the Pribilof Islands. I have never known any fur-seal to haul up anywhere on the land on the coast of Alaska. I have never been in Bering Sea. I think sealing should be prohibited for four or five years in order to give them a chance to multiply and become as plentiful as they formerly were.

Indiscriminate killing. Hunters use no discrimination, but kill everything that comes near the boat. Hunters shoot all seal in the head when it is possible to do so and take their chances of its sinking before they can reach them. From what I know seals have been decreasing very fast in recent years. Think the decrease is caused by the indiscriminate killing in the North Pacific Ocean and Bering Sea. I have never known any pups to be born in the water or anywhere else except on the Pribilof Islands. I have never known any fur-seal to haul up anywhere on the land on the coast of Alaska. I have never been in Bering Sea. I think sealing should be prohibited for four or five years in order to give them a chance to multiply and become as plentiful as they formerly were.

Decrease. have been decreasing very fast in recent years. Think the decrease is caused by the indiscriminate killing in the North Pacific Ocean and Bering Sea. I have never known any pups to be born in the water or anywhere else except on the Pribilof Islands. I have never known any fur-seal to haul up anywhere on the land on the coast of Alaska. I have never been in Bering Sea. I think sealing should be prohibited for four or five years in order to give them a chance to multiply and become as plentiful as they formerly were.

No pelagic birth. to be born in the water or anywhere else except on the Pribilof Islands. I have never known any fur-seal to haul up anywhere on the land on the coast of Alaska. I have never been in Bering Sea. I think sealing should be prohibited for four or five years in order to give them a chance to multiply and become as plentiful as they formerly were.

Do not haul up on coast. in Bering Sea. I think sealing should be prohibited for four or five years in order to give them a chance to multiply and become as plentiful as they formerly were.

Protection. for four or five years in order to give them a chance to multiply and become as plentiful as they formerly were.

P. S. WEITTENHILLER.

Subscribed and sworn to before me this 6th day of May, 1892.

A. W. LAVENDER,

*United States Treasury Agent.**Deposition of Michael Wooskoot, sealer.*

PELAGIC SEALING.

Michael Wooskoot, being duly sworn, deposes and says: I am 60 years old; born and reside in Sitka, Alaska. Have been engaged in hunting seal for a great many years in the North Pacific Ocean around Sitka Sound. First seal are seen and taken by me about the middle of April of each year. There are more or less of them on the coast till the 1st of July. First part of the season they are plentiful, but towards the last they become scarce. During the above-mentioned period the seal are on the move to the westward. Many years ago, when seal were plenty, the spear was used, but now so many schooners are engaged in sealing that the shotgun and rifle has to be used in order to

Experience. been engaged in hunting seal for a great many years in the North Pacific Ocean around Sitka Sound. First seal are seen and taken by me about the middle of April of each year. There are more or less of them on the coast till the 1st of July. First part of the season they are plentiful, but towards the last they become scarce. During the above-mentioned period the seal are on the move to the westward. Many years ago, when seal were plenty, the spear was used, but now so many schooners are engaged in sealing that the shotgun and rifle has to be used in order to

Migration. There are more or less of them on the coast till the 1st of July. First part of the season they are plentiful, but towards the last they become scarce. During the above-mentioned period the seal are on the move to the westward. Many years ago, when seal were plenty, the spear was used, but now so many schooners are engaged in sealing that the shotgun and rifle has to be used in order to

secure them, as they have become very wild. When the spear was used very few seal were lost. About 50 per cent are lost when shot with shotgun. A larger per cent are lost when killed with a rifle. Almost all seals taken are females with pup; they are less active, sleep more, and are more easily taken. Quite a large number of yearlings are taken, mostly females. During my life I have taken over 100 bull seals. The sex of seal can not be told in the water. No discrimination is used in seal hunting; all seal are killed that come near the boat. The only seal that can be distinguished in the water is an old bull. When a seal is shot dead he sinks at once. Seal are always shot in the head whenever it is possible to do so. Have noticed the seal are decreasing very fast, owing to so many schooners hunting seals in the waters of the North Pacific Ocean and Bering Sea. Have never known or heard of pups being born in the water nor on the coast of Alaska outside of the Pribilof Islands. Have never known of any fur-seal to haul out on the land on the coast of Alaska. Have heard of them hauling out on the Pribilof Islands, but have never been there. I think if all pelagic seal hunting was stopped seal would soon become plentiful on the coast.

Almost all taken pregnant females.

Indiscriminate killing.

Decrease.

No pelagic birth.

Do not haul out on Alaskan coast.

Protection.

his
MICHAEL X WOOSKOOT.
mark.

GEORGE KOSTROMETINOFF,
United States Court Interpreter.

Subscribed and sworn to before me this 7th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

TESTIMONY TAKEN IN OR NEAR DIXON ENTRANCE.

Deposition of Johnny Baronovitch, native sealer at Kasan.

PELAGIC SEALING.

Johnny Baronovitch, being duly sworn, deposes and says: I was born at Kasan, and have lived here all my life. My business is that of hunting and fishing. Have hunted fur-seal in a canoe in May off the Prince of Wales Island. Always used the shotgun for taking seal. A very few are lost when shot with the shotgun, as we shoot them close to the boat. Most all the seals taken are females with pup. I used no discrimination, but kill everything that come near the boat in shape of a seal. Never stopped to ask if it is female or not. A few old bulls have been taken by me. There are not nearly as many seal on the coast as there was two or three years ago, and they will soon be all gone unless schooners are all stopped from hunting seal along the coast of Alaska. I have never known any pups to be born in the water or on the land in this part of Alaska. Nor have I ever seen or heard of any fur seal being in the inland waters of this part of Alaska. I have never heard of any fur-seal hauling up on the land in any part of Alaska. I think if the schooners were all stopped from hunting seal, they would become plentiful once more, and the Indians could catch them as they used to.

Experience. at Kasan, and have lived here all my life. My business is that of hunting and fishing. Have hunted fur-seal in a canoe in May off the Prince of Wales Island. Always used the shotgun for taking seal. A very few are lost when shot with the shotgun, as we shoot them close to the boat. Most all the seals taken are females with pup. I used no discrimination, but kill everything that come near the boat in shape of a seal. Never stopped to ask if it is female or not. A few old bulls have been taken by me. There are not nearly as many seal on the coast as there was two or three years ago, and they will soon be all gone unless schooners are all stopped from hunting seal along the coast of Alaska. I have never known any pups to be born in the water or on the land in this part of Alaska. Nor have I ever seen or heard of any fur seal being in the inland waters of this part of Alaska. I have never heard of any fur-seal hauling up on the land in any part of Alaska. I think if the schooners were all stopped from hunting seal, they would become plentiful once more, and the Indians could catch them as they used to.

Mostly pregnant cows taken.

Indiscriminate killing.

Decrease.

Not born in water or on coast.

Protection.

JOHNNY BARONOVITCH.

Witness to his signature:

J. M. POTTER.

A. W. LAVENDER.

Subscribed and sworn to before me this 9th day of May, 1892.

A. W. LAVENDER,

United States Treasury Agent.

Deposition of Maurice Bates, sealer.

PELAGIC SEALING.

Maurice Bates, being duly sworn, deposes and says: I am 40 years old. Was born in British Columbia, and now reside in New Metlakahtla. I am a hunter by occupation; have hunted fur-seal in a canoe ever since I was old

Experience.

enough. My hunting lodge is on Dundas Island, and I hunt in Dixons Entrance and off Prince of Wales Island. Have always used a shotgun for taking seal, and lose about 40 per cent of what I shoot. Most of the seals taken by me have been female with pup. Never killed but one old bull in my life. I have killed a good many small bulls, and a great many yearling seals, but never examined the latter as to sex. I have always hunted seals from March to June. Everything that comes near the boat in shape of a seal is shot, regardless of sex. The seal are not near as plentiful as they used to be. The cause of the decrease is, I think, too many schooners hunting them off Prince of Wales Island and around Dixons Entrance. Have never known any seal pups to be born in the water or on the land anywhere around this part of Alaska. Have never seen or heard of seals hauling up on the land around this part of Alaska. I have never seen any fur seal around Annette Island or any of the inland waters of Alaska. I think the schooners should be prohibited from hunting seal out in the water off Prince of Wales Island, so that the seal will become plentiful again.

Sealer, on Dundas Island.

Mostly female with pup killed.

Indiscriminate killing.

Decrease.

Seal pups not born in water.

Do not haul up on land.

Protection.

MAURICE ^{his} X BATES.
mark

Witness to his mark:

DAVID LEASK.

A. W. LAVENDER.

Subscribed and sworn to before me this 10th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Edward Benson, sealer.

PELAGIC SEALING.

Edward Benson, being duly sworn, deposes and says: I am 34 years old. Was born in British Columbia and now reside at New Metlakatla. I have been engaged in hunting five years. Have hunted seal in canoes; begin to hunt the last of March and hunt till the middle of June. I have had my hunting lodge at Nicholas Bay and on Dundas Island. Hunt seal in Queen Charlotte Sound, Dixons Entrance, and off Prince of Wales Island. I use the shotgun for taking seal. I lose about 25 per cent of the seals shot. Think the majority of the seals taken are cows. Never killed but two old bulls in my life. Have killed quite a number of yearling seals and some young males 2 and 3 years old. We kill everything that comes near the boat, and use no discrimination, but shoot them regardless of sex. Seal are getting very scarce. I think the cause of the scarcity is too many people hunting seal. I have never known any pups to

Experience.

Majority taken cows.

Indiscriminate killing.

Decrease.

Not born in water or on coast. be born in the water or on the land. Nor have I known of any seal hauling up on the land anywhere in Alaska.

Do not haul up on Alaskan coast. I have never seen any fur seals in the water around Annette Island. I think schooners should be prohibited from hunting seal in the North Pacific Ocean to give them a chance to increase again.

Protection.

EDWARD BENSON.

Subscribed and sworn to before me this 10th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Charlie Dahtlin, sealer.

PELAGIC SEALING.

Charlie Dahtlin, being duly sworn, deposes and says: I was born in Shakan and have lived here all my life. Am a very old man. Have been a hunter all my life, hunting both seal and bear and all kinds of land animals, and have killed a great many of all kinds. Have hunted seal off the west coast of Prince Edward Island for a number of years. When I was a boy spear was used; now the shotgun and rifle are exclusively used for taking seal. None were lost when the spear was used. When the shotgun is used sometimes they are lost. A few more are lost when rifle is used. Majority of seals taken are cows with pup. Once in a while we take an old bull. A few yearlings are taken also. All seal are killed that come near the canoe, whether it is male or female. I make no difference. In former years there were lots of seal, but now there are very few. Too many schooners hunting them all the time in the water, killing the mother seals as well as others. Have never known of any pups being born in the water or on the land on the coast of Alaska. I have never heard of any or seen any fur-seal hauled up on the land anywhere around Prince Edward Island or anywhere else on the coast. If the schooners are stopped from taking seal off Prince Edward Island the seal will become plenty, and the Indians can kill them as they did a long time ago. Now the Indians can get very few.

Experience.

Majority taken pregnant females.

Indiscriminate killing.

Decrease.

killing the mother.

Pups not born in water.

Do not haul up on coast.

Protection.

CHARLIE ^{his} X DAHTLIN.
mark.

Witness to his mark:

J. M. POTTER.

A. W. LAVENDER.

Subscribed and sworn to before me this 7th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of William Duncan, resident of New Metlakahla.

PELAGIC SEALING.

William Duncan, being duly sworn, deposes and says: I am 60 years of age; I have resided in British Columbia thirty years and at New Metlakahla five years, and have always been with the Tsimshean Indians, both in British Columbia and Alaska. The Tsimsheans are great hunters of fur-seal. The Indians left their homes in March and remained away until May. Their hunting lodges were on some small islands outside of Dundas Island. From what they tell me the majority of seals taken by them have been females with young. The Indians report to me that the seal are very much scarcer than they were in former years, and I know that they don't bring in as many skins as they did in former years, although skins are bringing a much better price than they used to. I have never known of any fur-seal pups being born in the water or on the land in British Columbia or Alaska, but have heard they are born on the Pribilof Islands. The Indians have always reported to me when they returned from hunting that the seal had all gone north to have their young. I have never known or heard of any fur-seal hauling up on the land in British Columbia or Alaska outside of the Pribilof Islands. My connections with the Indians have been such that had there been a fur-seal rookery in British Columbia or Alaska I certainly should have known it. The Indians have always hunted seal with a shotgun, and I am sorry to say that they have killed a great many more than they secured. There can be but one cause for the scarcity of seal, and that is the indiscriminate killing of them in the water, and unless that is stopped the seal must soon be exterminated. The sea-otter, which were plentiful on this coast at one time, are now scarcely seen at all, and the indiscriminate slaughter of them in the water has almost entirely exterminated the animal. Some few remain in the far north, but they are very hard to secure.

Experience.

Majority taken pregnant females.

Pups not born in water.

Migration.

Do not haul up on coast outside of Pribilof.

Indiscriminate killing.

Decrease.

WILLIAM DUNCAN.

Subscribed and sworn to before me this 10th day of May, 1892.

A. W. LAVENDER,

*United States Treasury Agent.**Deposition of Echon, sealer.*

PELAGIC SEALING.

Echon, being duly sworn, deposes and says: Am about 50 years old and was born at Shakan. Have lived there all my life. Am a hunter by occupation. Have hunted seal in the summer time and land game in the winter. Have hunted seal off Prince of Wales Island in the spring. In former years I used to catch seal with a hook by paddling up close to them when they were sound asleep and hooking them. Can't use the hook now, as the seal have become very wild since they are hunted so much by schooners.

Experience.

Now I use the shotgun exclusively for taking seal. Very seldom I lose one, as I always shoot them close to the boat. I never examine them to know whether they are men or women seal. I can not tell the difference in the water, and shoot everything without knowing whether they are men or women. Indiscriminate killing. Some years ago the fur-seal were plenty off the islands, but since the schooners have hunted them they are nearly all gone and it is hard for the Indians of this village to get any. Decrease. Have never known any pup seal to be born in the water or anywhere else in this part of Alaska. Have never known any to haul up on the land anywhere in Alaska, nor have I ever seen any seal in the inland waters wherever I have been in Alaska. I think the schooners should be stopped from hunting seal so that the seal may become plentiful on the coast and the Indian may again have a chance to get them. It makes me feel bad to think the seal are most all gone and we can't hunt them as our fathers used to.

ECHON (his x mark).

Witnesses to his mark:

J. M. POTTER.

A. W. LAVENDER.

Subscribed and sworn to before me this 7th day of May, 1892.

A. W. LAVENDER,

United States Treasury Agent.

Deposition of Chief Frank, second chief Kaskan Indians, sealer.

PELAGIC SEALING.

Chief Frank, being duly sworn, deposes and says: I am the second chief of the Kaskan Indians. Was born at and have lived in Kaskan all my life, and am now a very old man. My father lived here before me. My occupation has always been that of a hunter. Have hunted fur-seal in canoes. Have always used the shotgun for killing seal, and but very few are lost. There were pregnant cows killed. cow seals with pup among the seals that I have taken, but I don't know how many. I have never taken an old bull in my life. Everything in shape of a seal that comes near the boat is killed. Indiscriminate killing. Fur-seal are not as plenty as they used to be, and it is hard for the Indians to catch any. I think there are too many white men in schooners hunting seals around Dixon's Entrance. Decrease. I never knew any fur-seal to be in the inland waters around this part of Alaska, nor have I ever known any fur-seal to haul up on the land anywhere in Alaska. I have never heard of seal pups being born in the water. I don't know what to think about the schooners. There is one thing certain, seals are getting scarce. Do not haul up on land. Pups not born in water.

his
CHIEF X FRANK.
mark.

Witness to his mark:

J. M. POTTER.

A. W. LAVENDER.

Subscribed and sworn to before me this 9th day of May, 1892.

A. W. LAVENDER,

United States Treasury Agent.

Deposition of Charles Gibson, sealer.

PELAGIC SEALING.

Charles Gibson, being duly sworn, deposes and says: I am 33 years old; was born in British Columbia, and now live at Port Chester. I have hunted seal in canoes in Queen Charlotte Sound. Have always used the shotgun for taking seal. I lose about 33½ per cent of what I shoot. I have never examined the seal as to sex. I shoot everything that comes near the boat and use no discrimination whatever. The seal are becoming very scarce, caused, I think, by the white men hunting them too much. I have never known of pups being born in the water or on the land anywhere around Alaska. I have never seen or heard of fur-seal hauling up on the land in this part of Alaska. I have never seen a fur-seal in the inland waters between Port Chester and Loring. I think if the white men were prohibited from taking seal around Dixons Entrance, Prince of Wales Island, and in Queen Charlotte Sound the seal would become plenty once more and the Indians could catch them again as they used to.

Experience.

Indiscriminate killing.

Decrease.

No pelagic birth.

Seals do not haul up on land.

Protection.

his
CHARLES X GIBSON.
mark.

Witness to his mark:

J. M. POTTER.

A. W. LAVENDER.

Subscribed and sworn to before me this 9th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Henry Haldane, sealer.

PELAGIC SEALING.

Henry Haldane, being duly sworn, deposes and says: I am 33 years old; born in British Columbia, and now reside at New Metlakatla. Have hunted fur-seal in a canoe. Have had my hunting lodge on Dundas Island and Nicholas Bay, and hunt seal from the last of March to the first of June off Prince of Wales Island, in Dixons Entrance and Queen Charlotte Sound. They all disappear about June 1 on their way north. Have always used a shotgun for taking seal, and lose about 25 per cent of the seals I shoot. Think the seals taken by me have been about equally divided between females and males. Have taken a number of yearling seals and some two and three year old males. Have never killed an old bull. I always shoot everything that comes near the boat; can not tell the sex in the water. The seal are not nearly as plentiful as they once were, and I think they are hunted too much by schooners. Have never known

Experience.

Migration.

Equal number of males and females taken.

Indiscriminate killing.

Decrease.

No pelagic birth. any pups to be born in the water or on the land anywhere in Alaska. I have never known any fur-seal to haul up on the land. Old fables tell us that they hauled up at one time, but I have been unable to learn that they ever did. Never seen any fur-seal anywhere around this island or in any of the inland waters.

HENRY HALDANE.

Subscribed and sworn to before me this 10th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Jack Johnson, sealer.

PELAGIC SEALING.

Jack Johnson, being duly sworn, deposes and says: I am 39 years old, and was born at Tongrass, and now live at Wrangel. Am a hunter by occupation, and have hunted fur-seal in Queen Charlotte Sound, using shotgun exclusively. Quite a number of seals are lost; I don't know how many. Most of the seals taken are females with pup. Once in a while an old bull is killed. Everything in the shape of a seal that comes near the boat is shot. Seal are not nearly as plentiful on the coast as in former times. Have never known pups to be born in the water or on the land in this part of Alaska. Have never known or heard of fur-seals hauling up on the land on the coast of Alaska. My idea is that there are too many camp-fires around on the coast of Alaska that scares the seal out to sea. The seal smell the smoke and won't come near the land; and there are a large number of people shooting seal, which scares them away also.

his
JACK X JOHNSON.
mark.

Witness to his mark:

J. M. POTTER.

A. W. LAVENDER.

Subscribed and sworn to before me this 9th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Johnnie Johnstin, sealer.

PELAGIC SEALING.

Johnnie Johnstin, being duly sworn, deposes and says: I belong to Klawak, where I was born. Am now living at Shakan. Am by occupation a hunter; have been hunting seal and land animals since a boy. Have always hunted seal off Prince of Wales Island in spring and early summer. Have always used shotgun and rifle for taking seal. I never lose any seal when I shoot them, because I always shoot them close to. A large proportion of seals killed by me were cows with pup. Have killed a very few old bulls and

A large proportion
killed pregnant fe-
males.

some yearlings. I shoot everything in shape of a seal that comes near the boat and use no discrimination. There are too many schooners hunting seal off Prince of Wales Island, and it is hard for indians to get any in canoes. Have never known pups to be born in the water or on the land anywhere on the coast of Alaska. Have never known any seal to haul up on the land in Alaska. I have never seen any fur-seal in the inland waters of Alaska wherever I have traveled. I think all schooners should be stopped from hunting seal off Prince of Wales Islands, so the seal would become plentiful once more and the indians could catch them again.

Indiscriminate killing.

No pelagic birth.

Do not haul up on land.

Protection.

his
JOHNNIE × JOHNTIN.
mark.

Witness to his mark:

J. M. POTTER.

A. W. LAVENDER.

Subscribed and sworn to before me this 7th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of James Klonacket, sealer.

PELAGIC SEALING.

James Klonacket, being duly sworn, deposes and says: I was born at Klinquan, and have lived at Howkan a great many years. I am now a very old man and am a hunter by occupation. Have hunted fur-seal for twelve seasons off Prince of Wales Island. Have always hunted seal a month and a half before the small birds hatch, and they hatch about June 1. The seal all go north about this time. I use the shotgun for taking seal, and sometimes I lose one or two out of ten that I kill. When I first began to hunt seals the females were plenty, but now they are not so plenty. The majority of seals killed the last few years have been young males two and three years old. I have killed a few old bulls. They were not plentiful when I first began to hunt, then they got plenty, and now they are nearly all gone. Female and male seals look the same in water, unless it be an old bull, which I can tell by its bigness, and I shoot everything that comes near the canoe. Seal used to be plentiful, but now they are nearly all gone. They are too much hunted by the white men with schooners. Have never known any pups to be born in the water or on the land anywhere in Alaska or British Columbia, and I don't know where they are born. I don't know of any fur-seal hauling up on the land anywhere in Alaska or British Columbia, and I don't know where they do haul up.

Experience.

Migration.

Decrease.

No pelagic birth.

Fur seal do not haul up on land.

his
JAMES × KLONACKET.
mark

Witness to his mark:

A. W. LAVENDER.

H. R. GOULD, *Interpreter.*

Subscribed and sworn to before me this 12th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Edward Maitland, sealer.

PELAGIC SEALING.

Edward Maitland, being duly sworn, deposes and says: I was born in British Columbia. I reside now in New Metlakahtla. Am 31 years old.

Experience. I have been a hunter all my life. Have hunted seal in a canoe; my lodge was on Dundas Island, and I hunted in Queen Charlottes Sound and Dixons Entrance. Always used the shotgun for taking seal. About 50 per cent of the seals shot with shotgun are lost. Most of the seals taken by me have been females with pup. I have never taken a big bull in my life. Have killed small bulls and some yearlings. It makes no difference if a seal is a male or female; we shoot everything that comes near enough. I have never known any pups to be born in the water, or on the land on the coast around this part of Alaska. I have never known any fur-seal to haul up on the land anywhere in Alaska. I have never seen any fur-seal around Annette Island anywhere.

Mostly pregnant females taken.

No pelagic birth.

Do not haul up on Alaskan coast.

EDWARD MAITLAND.

Witness to his signature:

J. M. POTTER.

Subscribed and sworn to before me this 10th day of May, 1892.

A. W. LAVENDER,

United States Treasury Agent.

Deposition of Frederick Mason, sealer.

PELAGIC SEALING.

Frederick Mason, being duly sworn, deposes and says: I am 32 years old. Was born in British Columbia, and now reside at New Metlakahtla.

Experience. Am a hunter by occupation; have hunted fur-seal in canoes since I was a boy. The seal first make their appearance in March off Prince of Wales Island, and leave about the middle of June. My hunting lodge has always been on Nicholas Bay, and I have hunted in Queen Charlotte Sound, Dixons Entrance, and off Prince of Wales Island. I always use the shotgun for taking seal, and lose about 25 per cent of what I shoot. The seals killed by me were about half males and half females. Have killed but one old bull in my life. I have killed quite a number of yearling seals, but never examined them as to sex. Everything that comes near the boat in shape of a seal is shot; I can not tell the sex of a seal till after it is dead. There are not near as many hunters hunting seal as there used to be, for the seal are decreasing very fast. I know because I am hunting seal all the time. There are too many schooners hunting seal off the Prince of Wales Island and Dixons Entrance and if they are not stopped they will soon be all gone. I have never seen a pup born in the water, nor have I ever heard of a pup being born on the land around this part of Alaska. I have never seen or heard of a fur-seal being hauled up on the land anywhere in this

One-half females killed.

Indiscriminate killing.

Protection.

No pelagic birth.

part of Alaska, nor do I believe that old fable that is told by some of the old men that fur-seal once did haul up here, or any other part of Alaska outside of the Seal Islands. I think if the schooners were prohibited from taking seal, they would become plentiful, as they were years ago.

FREDERICK ^{his} X MASON.
mark.

Witness to his mark:

DAVID LEASK.

A. W. LAVENDER.

Subscribed and sworn to before me this 10th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Amos Mill, scaler.

PELAGIC SEALING.

Amos Mill, being duly sworn, deposes and says: I was born in British Columbia; I am about 50 years old, and now reside in New Metlakatla; have been a hunter all my life; have hunted fur-seal in canoes; my lodge is on Dundas Island, and I hunt off Prince of Wales Island, in Queen Charlotte's Sound and Dixon's Entrance; have always used the shotgun for taking seal; about 20 per cent of the seals I shoot with shotgun are lost; most all the seals killed by me have been females with pup; the seal hunting commences in March and ends about the middle of June; the seal are constantly going north during that time; I shoot all seal that come near the boat, regardless of sex; have never killed but two old bulls in my life; I have killed a few young bulls, and plenty of yearling seal; never examined them as to sex; I have never known any pups to be born in the water or any on the land in this part of Alaska; I have never seen any seal hauled out on the land anywhere around this part of Alaska; I have seen a few fur-seals in the waters near Prince of Wales Island in the months of May and June.

Experience.

Most all pregnant females killed.

Migration.

Indiscriminate killing.

No pelagic birth.

Do not haul up on coast.

AMOS ^{his} X MILL.
mark.

Witness to his mark:

DAVID LEASK.

A. W. LAVENDER.

Subscribed and sworn to before me this 10th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Matthew Morris, sealer.

PELAGIC SEALING.

Matthew Morris, being duly sworn, deposes and says: I was born at Kasan and am 22 years old. Am a hunter by occupation and have hunted fur-seal in canoes off Prince of Wales Island. Always use the shotgun for taking seal. I lose very few, as I always shoot them close to the boat. Shoot everything that comes near the boat in shape of a seal, and use no discrimination. Most of the seals taken by me have been cows with pup. First taken the seal off this island in May. Since the schooners have commenced to hunt seal they are becoming very scarce and the Indians have to go a long ways to get the few that they do. I have never known any pups to be born in the water, or any fur-seal to haul up on the land in this part of Alaska. I have never seen any fur-seal in the water anywhere around in the inland waters of Alaska. I think all the schooners ought to be stopped catching seal, so the Indians could catch them again.

his
MATTHEW X MORRIS,
mark.

Witness to his mark:

J. M. POTTER.

A. W. LAVENDER.

Subscribed and sworn to before me this 9th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Dan Nathlan, sealer.

PELAGIC SEALING.

Dan Nathlan, being duly sworn, deposes and says: I was born on Queen Charlottes Island. Am 25 years old and now reside at Howkan. Am a hunter by occupation. Have hunted fur-seal since I was a boy. This is the first year I ever hunted on a schooner; am now on the schooner *Adventure*. When I was a boy I hunted seal in Dixon's Entrance and off Queen Charlottes Islands. Always hunted during April and May. In June the seal all leave, going north. Have always used the shotgun for taking seal. Sometimes I lose two and sometimes three seal out of ten I shoot. About one-half of the seal of the seal I have taken were females with pup. Have taken a very few yearlings. Once in a while I take an old bull, but not often. The male seals that I have killed are two and three years old, I think. We shoot everything that comes near the canoe, regardless of sex. The sex can not be told in the water unless it be an old bull. The last four or five years seal have been growing scarcer every year, owing, I think, to too many white men hunting seals in schooners off Queen Charlotte Islands and in Dixons

Entrance. I think if the schooners are not prohibited from hunting seal they will soon become as scarce as the sea otter now is. There have only been two seal killed by the four canoes hunting off Cape Muzon this season, which shows plainly enough that the seal are most all gone. I have never seen any pup seal born in the water or on the land anywhere around British Columbia or Alaska. Have never seen any fur-seal haul up on the land anywhere in Alaska, or British Columbia, or on Queen Charlottes Islands.

Protection.

No pelagic birth.

Do not haul up on coast.

his
DAN × NATHLAN.
mark.

Subscribed and sworn to before me this 12th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Joseph Neishkaitk, sealer.

PELAGIC SEALING.

Joseph Neishkaitk, being duly sworn, deposes and says: I was born in British Columbia; am 60 years old, and now reside at New Melakahtla; am a hunter by occupation; have hunted fur-seal; hunt in Dixons Entrance and Queen Charlotte Sound. The seal make their appearance the last of March and disappear the 1st of June, and I hunt them during that time. Use the shotgun for taking seal, and lose about 25 per cent of those I shoot. Think about half of the seals taken by me have been cows with pup; the rest are yearlings and young males two and three years old. Have never seen an old bull in my life. Everything is killed that comes near the canoe in shape of a seal. We cannot tell a male from a female in the water. Seal are not near as plenty as they used to be; too many hunters are catching them and indiscriminately killing them. I have never known any pups to be born in the water or on the land around this part of Alaska. I am a very old man, and I have never even heard of. I have never heard of or seen any seal hauled up on the coast of Alaska anywhere. Have never even seen any fur-seal in the waters around Annette Sound or in any of the inland waters. I think if the schooners were prohibited from taking seal they would become plentiful again.

Experience.

last of March

Migration.

Half pregnant females taken.

Indiscriminate killing.

Decrease.

I have never

No pelagic birth.

Do not haul up on coast.

Protection.

his
JOSEPH × NEISHKAITK.
mark.

Witnesse to his mark:

DAVID LEASK.

A. W. LAVENDER.

Subscribed and sworn to before me this 10th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Ntkla-ah, scaler.

PELAGIC SEALING.

Ntkla-ah, being duly sworn, deposes and says: I was born at Howkan. Am very old; about 60 years old. I have been a hunter all my life. Have hunted fur-seal every season since I was old enough, in a canoe. The seal always come here before the birds begin to sing very much, and they are all gone when the salmon berries get ripe, which I think is between the months of March and July. Have used a Hudson Bay shotgun since I can remember for taking seal. I very rarely lose a seal, because I shoot them close to the boat. I think about half the seals taken by me are females with pup. Have never taken but a few old bulls in my life. Have taken a good many yearlings, but never examined them as to sex. When I was a young man seals were much more plentiful than they are now. The last three years, since the schooners began hunting seals, they have become very scarce. It is hard for the Indians to get any now, and this year they have killed but two. About the time the wild geese are flying north the seals are most plentiful. I can not tell the difference between a male and a female seal in the water, and I shoot every seal that comes near the canoe. I think if the schooners are not stopped from hunting seal the seal, like the sea-otter, will soon be all gone. I have never known or heard of pups being born in the water or on the land anywhere in British Columbia, Queen Charlotte Islands, or Alaska. I have never known or heard of fur-seal hauling up on the land anywhere in British Columbia, Queen Charlotte Islands, or Alaska.

Experience. Am very old; about 60 years old. I have been a hunter all my life. Have hunted fur-seal every season since I was old enough, in a canoe. The seal always come here before the birds begin to sing very much, and they are all gone when the salmon berries get ripe, which I think is between the months of March and July. Have used a Hudson Bay shotgun since I can remember for taking seal. I very rarely lose a seal, because I shoot them close to the boat. I think about half the seals taken by me are females with pup. Have never taken but a few old bulls in my life. Have taken a good many yearlings, but never examined them as to sex. When I was a young man seals were much more plentiful than they are now. The last three years, since the schooners began hunting seals, they have become very scarce. It is hard for the Indians to get any now, and this year they have killed but two. About the time the wild geese are flying north the seals are most plentiful. I can not tell the difference between a male and a female seal in the water, and I shoot every seal that comes near the canoe. I think if the schooners are not stopped from hunting seal the seal, like the sea-otter, will soon be all gone. I have never known or heard of pups being born in the water or on the land anywhere in British Columbia, Queen Charlotte Islands, or Alaska. I have never known or heard of fur-seal hauling up on the land anywhere in British Columbia, Queen Charlotte Islands, or Alaska.

Migration. when the salmon berries get ripe, which I think is between the months of March and July. Have used a Hudson Bay shotgun since I can remember for taking seal. I very rarely lose a seal, because I shoot them close to the boat. I think about half the seals taken by me are females with pup. Have never taken but a few old bulls in my life. Have taken a good many yearlings, but never examined them as to sex. When I was a young man seals were much more plentiful than they are now. The last three years, since the schooners began hunting seals, they have become very scarce. It is hard for the Indians to get any now, and this year they have killed but two. About the time the wild geese are flying north the seals are most plentiful. I can not tell the difference between a male and a female seal in the water, and I shoot every seal that comes near the canoe. I think if the schooners are not stopped from hunting seal the seal, like the sea-otter, will soon be all gone. I have never known or heard of pups being born in the water or on the land anywhere in British Columbia, Queen Charlotte Islands, or Alaska. I have never known or heard of fur-seal hauling up on the land anywhere in British Columbia, Queen Charlotte Islands, or Alaska.

Half taken pregnant females. never taken but a few old bulls in my life. Have taken a good many yearlings, but never examined them as to sex. When I was a young man seals were much more plentiful than they are now. The last three years, since the schooners began hunting seals, they have become very scarce. It is hard for the Indians to get any now, and this year they have killed but two. About the time the wild geese are flying north the seals are most plentiful. I can not tell the difference between a male and a female seal in the water, and I shoot every seal that comes near the canoe. I think if the schooners are not stopped from hunting seal the seal, like the sea-otter, will soon be all gone. I have never known or heard of pups being born in the water or on the land anywhere in British Columbia, Queen Charlotte Islands, or Alaska. I have never known or heard of fur-seal hauling up on the land anywhere in British Columbia, Queen Charlotte Islands, or Alaska.

Decrease. to get any now, and this year they have killed but two. About the time the wild geese are flying north the seals are most plentiful. I can not tell the difference between a male and a female seal in the water, and I shoot every seal that comes near the canoe. I think if the schooners are not stopped from hunting seal the seal, like the sea-otter, will soon be all gone. I have never known or heard of pups being born in the water or on the land anywhere in British Columbia, Queen Charlotte Islands, or Alaska. I have never known or heard of fur-seal hauling up on the land anywhere in British Columbia, Queen Charlotte Islands, or Alaska.

Indiscriminate killing. all gone. I have never known or heard of pups being born in the water or on the land anywhere in British Columbia, Queen Charlotte Islands, or Alaska. I have never known or heard of fur-seal hauling up on the land anywhere in British Columbia, Queen Charlotte Islands, or Alaska.

No pelagic birth. born in the water or on the land anywhere in British Columbia, Queen Charlotte Islands, or Alaska. I have never known or heard of fur-seal hauling up on the land anywhere in British Columbia, Queen Charlotte Islands, or Alaska.

Do not haul up on coast. in British Columbia, Queen Charlotte Islands, or Alaska.

NTKLA-AH (his x mark).

Witnesses to his mark:

A. W. LAVENDER,
H. R. GOULD, *Interpreter.*

Subscribed and sworn to before me this 12th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Peter Olson, fur hunter.

PELAGIC SEALING.

Peter Olson, being duly sworn, deposes and says: I was born at Howkan, and have lived at Kasan since I was a boy. Have been a hunter all my life. Have never hunted fur-seal; always hunted on the land; a great many of our people hunt fur-seal along the coast of Prince of Wales Islands and out in Dixon's Entrance. I have never seen any fur-seal anywhere in the inland waters, nor have I ever heard of any being around the inland waters of this part of Alaska. I have never known of any fur-seal pup to be born in the water or haul up on the land anywhere in Alaska. The Indian fur-seal hunters of my people all tell me that the fur-seal are be-

Experience. Howkan, and have lived at Kasan since I was a boy. Have been a hunter all my life. Have never hunted fur-seal; always hunted on the land; a great many of our people hunt fur-seal along the coast of Prince of Wales Islands and out in Dixon's Entrance. I have never seen any fur-seal anywhere in the inland waters, nor have I ever heard of any being around the inland waters of this part of Alaska. I have never known of any fur-seal pup to be born in the water or haul up on the land anywhere in Alaska. The Indian fur-seal hunters of my people all tell me that the fur-seal are be-

Never seen fur seal in inland waters. the inland waters, nor have I ever heard of any being around the inland waters of this part of Alaska. I have never known of any fur-seal pup to be born in the water or haul up on the land anywhere in Alaska. The Indian fur-seal hunters of my people all tell me that the fur-seal are be-

Do not haul up on land. never known of any fur-seal pup to be born in the water or haul up on the land anywhere in Alaska. The Indian fur-seal hunters of my people all tell me that the fur-seal are be-

coming very scarce. Too many white men are killing them all the time, and they kill cows with pup as well as other kinds. I am the chief of my people, and they all tell me what they know. If the schooners were stopped hunting seal, they would become plenty once more, and my people would get plenty once more, and they need them very much.

Decrease.

Protection.

his

PETER X OLSON.
mark

Witness to his mark:

J. M. POTTER.

A. W. LAVENDER.

Subscribed and sworn to before me this 9th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Jack Shucky, scaler.

PELAGIC SEALING.

Jack Shucky, being duly sworn, deposes and says: Was born in Shakan; am a hunter by occupation; have hunted seal in summer time and bear in winter since I was a boy; have always hunted seal off Prince of Wales Islands in my canoe. Shotgun and rifle are used by me for taking seal. About 25 per cent are lost when shot with the shotgun and more are lost when shot with rifle. The majority taken are females with pup. Once in awhile an old bull is taken, but very seldom. A few small yearlings are taken, but not many. All seal are killed that come near the boat. I never stop to consider whether it is a male or female, but kill it off if I can. Since the schooners have hunted seal off the Prince of Wales Island the seals have become scarce, and it is hard for the Indians to get any in canoes. In former times they used to get plenty. Never known of pups being born in the water or anywhere in this part of Alaska. Have never known of seal hauling up on the land anywhere in Alaska, nor have I ever seen any fur-seal in the inland waters between this place and Wrangel Island. If the schooners are allowed to hunt seal any longer the seal will soon all be gone. That's all I have to say.

Experience.

Majority taken
pregnant females.

Indiscriminate kill-
ing.

Decrease.

No pelagic birth.

Do not haul up on
land.

Do not frequent in-
land waters.

Protection.

his

JACK X SHUCKY.
mark.

Witness to his mark:

J. M. POTTER.

A. W. LAVENDER.

Subscribed and sworn to before me this 7th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Aaron Simson, sealer.

PELAGIC SEALING.

Aaron Simson, being duly sworn, deposes and says: I reside at Wrangel and am 22 years. I have hunted seal some off Queen Charlotte's Island; always use shotgun and rifle. Most of the seal taken by me were cows with pup. In all my traveling around in the waters of southeastern Alaska, I have only seen one fur-seal in my life. I have never seen or heard of pup seals being born in the water or anywhere in Alaska; nor have I ever seen or heard of fur-seals hauling up on the land in any part of Alaska. I think that all pelagic seal hunting should be stopped so the seal can become plentiful again, for now the seal are so scarce that the Indians can catch but very few, where in olden times they caught plenty.

Experience.

Mostly pregnant females taken.

No pelagic birth.

Do not haul up on Alaskan coast.

Protection.

Decrease.

AARON SIMSON.

Subscribed and sworn to before me this 9th day of May, 1892.

A. W. LAVENDER,
*United States Treasury Agent.**Deposition of George Skultka, chief of the Hyda Indians and sealer.*

PELAGIC SEALING.

George Skultka, being duly sworn, deposes and says: I was born at Howkan and have lived there all my life. I am chief of the Hyda Indians; am about 50 years old. Am a hunter by occupation. Have hunted fur-seal since I was about 20 years old. We commence hunting when the geese begin to fly and hunt for a month and a half. The geese commence to fly about the last of April. I have always used a shotgun for taking seal. I lose pretty near half of the seal that I kill. Always shoot everything that comes near the boat in shape of a seal, regardless of sex. I think about three females with pup out of every ten killed. I kill lots of yearling seals, but never examined them as to sex. Never shoot any old bulls, although I have seen a good many. There are no seal left now; they are most all killed off. The last ten years the seal have been decreasing very fast, ever since the white men with schooners began to hunt them. Have never seen any fur-seal born in the water or on the land anywhere in British Columbia or Alaska. Have never seen or heard of any fur-seal rookeries in British Columbia or Alaska. All the hunters went out hunting this season, and returned home discouraged, only catching two fur-seals. The fur-seal, like the sea-otter, are all gone.

Experience.

Indiscriminate killing.

Pregnant females killed.

never examined

Decrease.

No pelagic birth.

his
GEORGE X SKULTKA.
mark.

Witness to his mark:

A. W. LAVENDER.

H. R. GOULD,

Interpreter.

Subscribed and sworn to before me this 12th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of William G. Thomas, fisherman.

PELAGIC SEALING.

William G. Thomas, being duly sworn, deposes and says: Have lived in southeastern Alaska the last eleven years, seven of which I resided at Fort Wrangel. Have been engaged in the fishing business a number of years. I have never seen or heard of any fur-seal being seen in any of the inland waters of Alaska, nor have I ever known of or seen any fur-seal hauled up on the land in any part of Alaska. Have employed a great many Indian fishermen, and had there been a fur-seal rookery in any part of the Alaskan coast I should certainly have heard of it.

Experience.

Never heard of fur seal in inland waters, nor heard of them hauling up on coast.

WM. G. THOMAS.

Subscribed and sworn to before me this 9th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of George Usher, sealer.

PELAGIC SEALING.

George Usher, being duly sworn, deposes and says: I was born in British Columbia. I am 57 years old, and reside at New Metlakahtla. I have been a hunter all my life. I was one of the first to hunt fur-seals among the Tsimpshens, and have hunted seal ever since. I always hunt in canoes. My hunting place has always been off Dundas Island. Have hunted in Queen Charlotte's Sound, Dixons Entrance, and off Prince of Wales Island. I have always used the shotgun for taking seal. I think I generally lose about 75 per cent of the seals shot with shotgun. Most of the seals taken have been cows with pup. I have taken but a very few old bulls. I have killed plenty of young males, and have taken quite a number of yearlings, but never examined them as to sex. I always shoot everything that comes near the boat, regardless of sex. We use no discrimination. Last year there seemed to be a great number of seals on my old hunting grounds. I have never seen any pups born in the water. The seals at this time of year are always going north. I have never seen any fur-seal hauled up on the rocks anywhere on the coast of this part of Alaska. I have never seen any fur-seal anywhere around Annette Island.

Experience.

Mostly pregnant females taken.

Indiscriminate killing.

No pelagic birth.

Do not haul up on coast.

his
GEORGE X USHER.
mark.

Witness to his mark:

DAVID LEASK.

A. W. LAVENDER.

Subscribed and sworn to before me this 10th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Affidavit of Paul Young, sealer.

PELAGIC SEALING.

Paul Young, being duly sworn, deposes and says: I was born at Kasan, and am 30 years old; have lived at Kasan all my life; am a hunter by occupation; in the spring and early summer I hunt fur-seal in canoe. Seal make their appearance off Prince of Wales Islands in April. Always use shotgun for taking seal. I lose but very few seal, as I always shoot them very close to the boat. Most of the seals I have killed were females with pup. Once in a while an old bull is taken. I use no discrimination and kill everything that comes near the boat in shape of a seal. Seal have been disappearing very rapidly the last few years, and it is hard for our people to get them. There are too many white men hunting them with schooners off Prince of Wales Island. I have never seen any fur-seal in the inland waters of this part of Alaska, nor have I ever heard of any being there from the people of my tribe. Have never known any fur-seal to haul up on the land, nor have I ever seen or heard of pups being born in the water. I think the schooners should be stopped from hunting seal, and then they would become plenty again, and the Indians could kill them again as they used to.

his
PAUL X YOUNG.
mark.

Witness to his mark:

J. M. POTTER.

A. W. LAVENDER.

Subscribed and sworn to before me this 9th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

TESTIMONY TAKEN AT NICHOLAS BAY FROM INDIANS
WHILE THEY WERE HUNTING FUR-SEAL.

Deposition of William Clark, scaler.

PELAGIC SEALING.

William Clark, being duly sworn, deposes and says: I was born at
Klinquan and have lived there ever since; have hunted
fur-seal nine years in Dixons Entrance and off Prince
of Wales Island, in and between March and June.
The seal disappear early in June, going north. I always
use the shotgun for taking seal. I think about 25 per
cent are lost. About half the seals killed by me have
been cows with pup. I never shot but two old bulls
in my life. Have shot a few yearling seals. The young
male seals I have killed were between two and three years old, I think.
The last five years fur-seal have been growing very
scarce, and it is hard to get any now. There are too
many white men with schooners hunting them off Dixons Entrance,
and unless it is stopped the seal will soon be all gone. Have never
known or heard of any fur-seal pups being born in the
water or on the land in any part of Alaska or British
Columbia. I have never known of seal to haul out on
the land anywhere in this part of Alaska or British Co-
lumbia wherever I have been.

Experience.

Migration.

One-half killed,
cows with pup.

Decrease.

Pups not born in
water.

Do not haul out on
land.

his
WILLIAM X CLARK.
mark.

Witness to his mark:

J. W. POTTER.

A. W. LAVENDER.

Subscribed and sworn to before me this 11th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Frank, scaler.

PELAGIC SEALING.

Frank, being duly sworn, deposes and says: I was born on Queen
Charlotte's Island, and am now a very old man. Don't know my age.
I have hunted fur-seals, and when I was a young man
there were lots of seals around Queen Charlotte
Islands, but now they have become scarce. The last

Experience.

few times I was out after them I did not see a seal. They have been growing scarcer every year since the white man began hunting them in schooners. I always hunted seals in Dixons Entrance, and off Prince of Wales and Queen Charlotte islands in March and June. The seal disappear in June towards the north. When I was a young man the Indians used the spear for taking seal; now they have learned from the white man to use the shotgun. About three out of ten are lost that are shot. I think the schooners ought to be prohibited from hunting seal, so the Indians could again get them again. Now they are obliged to go a long way in the canoes, and often go many days without seeing a seal, and come back tired. I have never known of pups to be born in the water or on the land anywhere around Queen Charlotte Islands or other parts of British Columbia and Alaska, where I have been. I have never known any seal to haul up on the land on Queen Charlotte Islands or any part of British Columbia or Alaska; nor have I ever heard of any seal having hauled up anywhere in British Columbia or Alaska.

FRANK (his x mark).

Witness to his mark:

J. M. POTTER.

A. W. LAVENDER.

Subscribed and sworn to before me this 11th day of May, 1892.

A. W. LAVENDER,

United States Treasury Agent.

Deposition of Luke Frank, sealer.

PELAGIC SEALING.

Luke Frank, being duly sworn, deposes and says: I was born in Howkan, and have lived there all my life; am by occupation a hunter, and have hunted fur-seal six years of my life; have always hunted in Dixons Entrance and off Prince of Wales Island during the month of May and June each year. The seal all disappear about the first of June, going north. There are seal in Dixons Entrance in March, but the wind blows so hard that it is impossible for us to hunt them in canoes; have always used the shotgun for taking seal. I lose about two out of ten that I shoot. I think the seals taken by me are about half females with pup, and the rest are one and two year old males and yearlings; never examined the yearlings as to sex. I can not tell the sex of a seal in the water; use no discrimination, but kill everything that comes near the boat. Since the white men have been hunting the seal with schooners, they have become very scarce and it is hard for the Indians to get any in their canoes. And all seal hunting in the waters should be stopped for a few years to give the seal a chance to become plenty again. Never knew any fur-seal to

be born in the water or on the land around British Columbia or Alaska. Never knew any fur-seal to haul up on the land in British Columbia or Alaska. Have never killed an old bull in my life, nor have I seen one the last few years.

No pelagic birth.
his
LUKE × FRANK.
mark.

Witness to his mark:

J. M. POTTER.

A. W. LAVENDER.

Subscribed and sworn to before me this 11th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of King Kaskwa, scaler.

PELAGIC SEALING.

King Kaskwa, being duly sworn, deposes and says: I was born at Howkan, and reside there. Have lived there all my life, and am now a very old man; about 65 years old. My occupation is that of a hunter. Have hunted fur-seal thirteen years or more. Have always hunted them in Dixons Entrance and off Prince of Wales Island between March and June. Hunt them until the last of May, when the seal disappear, going north. I always use the shotgun for killing seal. I lose about four out of ten that I shoot. About 50 per cent of the seals taken are cows with pup. Have killed a few old bulls, and have taken a few yearlings every season. We can not tell the difference between a male and a female in the water, but kill everything that comes near the boat. When I was a young man the seal were very plentiful around here, but since the schooners began hunting them they have become very scarce. The white hunter destroyed the sea-otter and will soon destroy the seal. I don't like to see the schooners around here hunting seal, for they kill everything they see, and unless they are stopped the seal will soon be all gone. The sea-otter is already gone. Have never seen fur-seal pups born in the water or on the land in British Columbia or Alaska. Have never seen any fur-seal hauled up on the land anywhere, nor have I ever heard of any being hauled up on the land either in British Columbia or Alaska.

Experience.
Migration.
Fifty per cent killed pregnant females.
Indiscriminate killing.
Decrease.
Protection.
No pelagic birth.
his
KING × KASKWA.
mark.

Witness to his mark:

J. M. POTTER,

A. W. LAVENDER.

Subscribed and sworn to before me this 11th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Jim Kasooh, sealer.

PELAGIC SEALING.

Jim Kasooh, being duly sworn, deposes and says: I was born at Howkan and have lived there all my life. Am about 45 years old. I am by occupation a hunter. Have hunted fur seal for eight years. Always hunted in Dixons Entrance and off Prince of Wales Islands in May and June. In June the seal all go up north. They come in March, but it is too stormy to hunt them. I always use the shotgun for taking seal. Sometimes I lose two and three out of ten that I shoot. About half of the seals killed are females with pup. Have killed some yearling seals, but never killed an old bull. The young males I killed were between two and three years old. Seals have been growing scarce the last five years, since the white man began hunting them with schooners, and if they are not stopped the seal will soon be all gone. I have never known seal pups to be born on the land or in the water in this part of Alaska. I never knew fur-seals to haul out anywhere on the land in Alaska, nor have I ever heard of any being hauled out.

Jim Kasooh.
Sealer; experience.
Migration.
One - half killed, pregnant females.
Decrease.
No pelagic birth.
Do not haul up on land.

his
JIM X KASOOH.
mark.

Witness to his mark:

A. W. LAVENDER.

Subscribed and sworn to before me this 11th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Robert Kooko, sealer.

PELAGIC SEALING.

Robert Kooko, being duly sworn, deposes and says: I was born in Victoria, British Columbia; moved from Victoria to Howkan, Alaska, when I was a small boy. Have hunted fur-seal for three years in Dixons Entrance and off Prince of Wales Island in the month of May. The seal all leave there by the first of June; think they go north. I have used the spear and shotgun. When a seal is struck with a spear we never lose him. About 50 per cent are lost when shot with a shotgun. The majority of seals taken by me were females with pup. Have taken some yearling seals, but never examined them as to sex. Have killed one or two old bulls in my life. The males I have killed have been one and two years old, I think. I kill everything that comes near the canoe, regardless of sex. Seal have become very scarce the last three years, and what few there are are very wild and hard to get at. I think the reason that seal have become scarce is that they are hunted too much and too many females killed with pup. I have

Experience.
of Wales Island
Migration.
Majority taken pregnant females.
Indiscriminate killing; decrease.
No pelagic birth.

never known any pups to be born in the water. Have never known any fur-seal to haul out on the land anywhere around this part of Alaska. I think the schooners should be prohibited from hunting seal off Prince of Wales Island so they can become plenty again.

Do not haul up on land.

Protection.

his
ROBERT X KOOKO.
mark.

Witness to his mark:

J. M. POTTER.

A. W. LAVENDER.

Subscribed and sworn to before me this 11th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Charles Martin, sealer.

PELAGIC SEALING.

Charles Martin, being duly sworn, deposes and says: I was born at Klinquan and reside there; am 30 years old, and my occupation is that of a hunter. Have hunted fur-seal ever since I was a boy; always hunt in Dixons Entrance and around Prince of Wales and Queen Charlotte's islands. I use the shotgun for taking seal. About 50 per cent are lost that are shot with the shotgun. About half of the seals killed by me, I think, were cows with pup. Have never killed an old bull, but have killed a few yearlings in my life. Never examined the latter as to sex. Since the white man with schooners has been hunting seal they have been growing scarcer every year, and unless they are stopped the seal will soon be all gone. The Indians now have to go a long way and suffer great hardships in order to get any. I have never known any fur-seal pups to be born in the water or on the land around this part of Alaska or British Columbia. I have never known any seal to haul out on the land anywhere around this part of Alaska or British Columbia, and I never heard of any hauling out in Alaska or British Columbia.

Experience.

One-half killed cows with pups.

Decrease.

No pelagic birth.

Do not haul out on land.

his
CHARLES X MARTIN.
mark.

Witness to his mark:

J. M. POTTER.

A. W. LAVENDER.

Subscribed and sworn to before me this 11th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Nashtou, sealer.

PELAGIC SEALING.

Nashtou, being duly sworn, deposes and says: I was born at Kas aan; am 60 years old; and have been a hunter all my life; have hunted fur seal outside of Prince of Wales Island and in Dixons Entrance during the month of May every

Experience.

year for a long time. The seal first come into Dixons Entrance in March. The weather is bad during that month, and I do not hunt them in canoes. The seal are constantly on the move north. Have always used spear and shotgun for taking seal. None I lost when I used spear. About 20 per cent are lost when killed with shotgun. About half the seals taken by me are cows with pup. I have taken a few old bulls in my life, but not many. Have taken quite a number of yearlings. The male seals taken are between two and three years old. The sex of the seal can not be told in the water. Hunters use no discrimination, but kill everything they can. When I was a young man seal were very plentiful off Prince of Wales Island and Dixons Entrance, but since the schooners have begun hunting seal they have become very scarce, and Indians now are obliged to go a long ways to kill any, and sometimes they will hunt for days without getting a seal. I have never known any pups to be born in the water or on the land anywhere around this part of Alaska or in British Columbia. Have never known any fur-seal to haul up on the land anywhere in British Columbia or Alaska. I think that all sealing should be stopped for a number of years, so that the seal can become plenty again, for the white man has almost exterminated the seal.

NASHTOU (his x mark).

Witness to his mark:

J. M. POTTER.

A. W. LAVENDER.

Subscribed and sworn to before me this 11th day of May, 1892.

A. W. LAVENDER,

United States Treasury Agent.

Deposition of Smith Natch, sealer.

PELAGIC SEALING.

Smith Natch, being duly sworn, deposes and says: I was born at Kas aan and have lived there all my life, and am now a very old man, about 80 years old. Have been a hunter all my life. Have hunted fur-seal every season for a great many years in Dixons Entrance. When I was a small boy fur-seal used to come into Clarence Straits, but it has been a good many years now since any fur-seal have seen there. Always hunted fur-seal between March and June. They make their appearance in March in Dixons Entrance, but at that time of the year the weather is so bad we can't hunt them. May is the best time to hunt them, because the weather is always good. They all disappear in June and go north up the coast—I think, to have their pups. When I was a boy I used a shotgun for taking seal, bought from the Hudson Bay Company at Fort Simpson, and have always used a shotgun for sealing. I think about two out of ten seal shot are lost. I think about half the seals killed by me are females with pup. I think there are a few more males killed in April than females, but in May there are more females killed. I can not tell a male from a female in the water, and it makes no difference; I shoot everything that comes near the canoe in shape of a seal. Since the white men with schooners began to hunt seal, the last five or six years, seals have

become very scarce, and it is hard for the Indians to get any now. They have to go a long way and hunt a long time in order to get one or two seals, and unless all seal hunting is stopped in the water the seal, like the sea-otter, will soon be all gone. Have never known any pups to be born in the water or on the land in British Columbia or Alaska, nor have I known any seals to haul up on the land anywhere in British Columbia or Alaska.

No pelagic birth.

Do not haul upon coast.

his
SMITH × NATCH.
mark.

Witness to his mark:

J. M. POTTER,

A. W. LAVENDER.

Subscribed and sworn to before me this 11th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Abel Ryan, sealer.

PELAGIC SEALING.

Abel Ryan, being duly sworn, deposes and says: I am 22 years old. Was born in British Columbia and reside on Dundas Island. I have hunted fur-seal every season since I was a boy, between March and June. Always hunted in Dixons Entrance and off Prince of Wales Island. The majority of seals taken by me have been females with pup. Once in a great while I catch an old bull. A few yearlings have been taken and the majority of males are two and three year olds. Shotgun is exclusively used by me for taking seals. Lose about 20 per cent of those killed with shot gun. Have noticed the seal are getting scarce the last few years. The cause of the scarcity is, I think, too many schooners hunting them off Prince of Wales Island, and unless they are stopped the seal will soon be all gone. I have never known or heard of any pups being born in the water or on the land anywhere around this part of Alaska. Have never known any fur-seal to haul up on the land anywhere around British Columbia or Alaska. I do know that where Indians formerly went out and brought back fifteen seals they scarcely bring back one now, and unless something is done to prohibit the schooners from hunting seal off Queen Charlotte's and Prince of Wales islands there will be no seals left for the Indians. Everything in the shape of a seal that comes near the boat is shot. Hunters use no discrimination, but kill everything that puts its head above water.

Experience.

Majority taken females with pup.

Decrease.

No pelagic birth.

Do not haul up on coast.

Protection.

Indiscriminate killing.

his
ABEL × RYAN.
mark.

Witness to his mark:

J. M. POTTER.

A. W. LAVENDER.

Subscribed and sworn to before me this 11th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Thomas Skowl, chief of Kasaan Indians, sealer.

PELAGIC SEALING.

Thomas Skowl, being duly sworn, deposes and says: I am chief of the Kas-aan Indians. Was born at Kasaan and have lived there all my life. Am 48 years old. Am a hunter by occupation and have hunted fur-seal the past fifteen years. Always hunted seal in Dixons Entrance and off

Thos. Skowl chief
of Kasaan Indians.
Sealer for 15 years.

Experience.

Migration.

of the seals taken by me are females with pup. Never killed but one old bull in my life. Have killed but a few yearlings and never looked to see if they were male or female. The young males killed by me were between one and three years old. The sex of the seal can not be told

Indiscriminate kill-
ing.

Decrease.

five days they frequently return without killing one seal, they have become so scarce. If the schooners are not stopped from hunting seal they will soon all be gone. Have

Protection.

No pelagic birth.

Do not haul out on
coast.

of British Columbia or Alaska, wherever I have been.

his
THOMAS X SKOWL.
mark.

Witness to his mark:

J. M. POTTER.

A. W. LAVENDER.

Subscribed and sworn to before me this 11th day of May, 1892.

A. W. LAVENDER,

United States Treasury Agent.

Deposition of Billy Williams, sealer for five years.

PELAGIC SEALING.

Billy Williams, being duly sworn, deposes and says: I was born at Kas-aan and have lived there all my life. Am 25 years old. Am a hunter by occupation, and have hunted fur-seal every year for the last five years, always hunting in Dixons Entrance and off Prince of Wales Island between March and June. About the 1st of June the seal disappear from Dixons Entrance and go north. I always use the shotgun for taking seal. I think I lose about five out of every ten that I shoot. I think about one-half the seal killed by me have been females with pup and the balance were divided up between yearlings and one and two year old males. Never

Experience.

Migration.

One-half seals killed
pregnant females.

examined the yearlings as to sex. Have never killed an old bull in my life. Can not tell the difference between a male and a female in the water. Kill everything that comes near the boat, regardless of sex. Seal are becoming very scarce since the white man began hunting them in schooners, and hunting seal by white man must be stopped or the seal will soon be all gone. Have never known any pups to be born in the water or on the land in any part of British Columbia or Alaska. Have never known any fur-seal to haul up on the land anywhere on the coast of Alaska or British Columbia.

Indiscriminate killing.

Decrease.

No pelagic birth.

Do not haul up on Alaskan coast.

his
BILLY X WILLIAMS.
mark.

Witness to his mark:

J. M. POTTER.

A. W. LAVENDER.

Subscribed and sworn to before me this 11th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Fred. Wilson, sealer.

PELAGIC SEALING.

Fred. Wilson, being duly sworn, deposes and says: I am 23 years old; was born at Howka; am a hunter by occupation; have hunted fur-seal the last eight years; have always hunted in Dixons Entrance and off Prince of Wales Island in May. The seal all disappear off Prince of Wales Island in June; I don't know where they go, but think they go north. Have always used the shotgun for killing seal. Sometimes I lose one and sometimes two out of ten that I shoot with a shotgun. Think that most of the seals I have taken were females with pup. Have also taken some two and three year old males and some yearlings. Never killed but one old bull in my life. Everything in shape of a seal that comes near the boat is shot. I can't tell the difference between a young cow seal. Seal have become scarce the last there or four years, and the cause of it is, I think, the indiscriminate killing of seals in the water. I have never heard of pups being born in the water or on the land anywhere on the coast of British Columbia or Alaska. Have never known or heard of any fur-seal hauling up on the land anywhere on the coast of British Columbia or Alaska. I think that all vessels should be prohibited from hunting seal in the water, to give the seal a chance to increase again. If something is not done the seal will soon be all gone and will soon be as scarce as the sea otter.

Migration.

Most of the seals taken pregnant females.

Decrease.

No pelagic birth.

Do not haul up on coast.

Protection.

his
FRED. X WILSON.
mark.

Witness to his mark:

J. M. POTTER.

A. W. LAVENDER.

Subscribed and sworn to before me this 11th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Billy Yeltachy, sealer.

PELAGIC SEALING.

Billy Yeltachy, being duly sworn, deposes and says: I was born at Howkan and have lived there all my life; am about 24 years old and am a hunter by occupation. Have hunted fur-seals the last two years in Dixons Entrance and around Prince of Wales Island, between March and June. The seal leave here in June and go north. I use the shotgun for taking seal, and lose about two out of ten that I shoot. About half the seals I have killed were females with pup, and the balance were yearling seals and two and three year old males. Never killed an old bull in my life, nor have I ever seen one. I can not distinguish the sex of a seal in the water, but kill every seal that comes near the canoe if possible. Seal have become very scarce around Prince of Wales Island since the white men began hunting them in schooners, and unless they are stopped from hunting them in schooners, the seal, like the sea-otter, will soon be all gone. The Indians are obliged to go a long way now for seal. I have been out three times this year and have only killed one seal, and only saw two or three this season. Have never seen or heard of any pups being born in the water or on the land around this part of Alaska. I never heard of any fur-seal hauling up on the land anywhere in British Columbia or Alaska.

his
BILLY X YELTACHY,
mark.

Witness to his mark:

J. M. POTTER.

A. W. LAVENDER.

Subscribed and sworn to before me this 11th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Hastings Yethnow, sealer.

PELAGIC SEALING.

Hastings Yethnow, being duly sworn, deposes and says: I was born in Kas-aan. Have lived there all my life and am now 60 years old. Have hunted fur-seal every season since I was a boy. Have always hunted in Dixons Entrance and off Prince of Wales Island. The seal make their appearance in March and disappear in June, going north. The reason we don't hunt the seal in March is that the weather is so bad we can not go out in our canoes. We consider May the best month for fur-seal hunting. When I was a boy, bought a shotgun from the Hudson Bay Company at Fort Simpson and have always used the shotgun for taking seal. Sometimes I lose one and sometimes two out of every ten that I shoot. I always shoot the seal close to the boat, so I don't lose many. Some years ago there were more male seals taken than are taken now, but now about one-half are females with pup. The rest are yearling seals and one and two year old males. I have never examined the yearlings to

Half taken pregnant females.

ascertain their sex. Have not killed an old bull seal for a number of years, but used to kill them. I can not tell the sex of a seal in the water, and use no discrimination, but kill everything that comes near my canoe in shape of a seal. Have never known any pups to be born in the water or on the land anywhere in British Columbia or Alaska. Have never known any fur-seal to haul up on the land in British Columbia or Alaska. Since the white men with schooners began to hunt seal off Prince of Wales Island the seal have become very scarce and unless they are stopped from hunting seal they will soon be all gone. If the white men are permitted to hunt seal much longer the fur-seal will become as scarce as the sea otter, which were quite plenty around Dixons Entrance when I was a boy. The Indians are obliged to go a long way for seal now and often return after two or three days' hunt without taking any.

Indiscriminate killing.

No pelagic birth.

Alaska. Have

Do not haul up on Alaskan coast.

Decrease.

Protection.

HASTINGS ^{his} × YETINOW.
mark.

Witness to his mark:

J. M. POTTER,

A. W. LAVENDER.

Subscribed and sworn to before me this 11th day of May, 1892.

A. W. LAVENDER,

*United States Treasury Agent.**Deposition of Walter Young, sealer.*

PELAGIC SEALING.

Walter Young, being duly sworn, deposes and says: I was born at Howkan and have lived there all my life. I have hunted fur-seal for the past four years. Always hunted in Dixons Entrance and off Prince of Wales Island. The seal all disappear about the 1st of June and go north, I think. Have always used the shotgun for taking seal. Think I lose about three out of ten of those I shoot. Think the seals I have killed were about half males and half females with pup. The males mostly are yearlings and two and three year olds. I have seen old bulls in the water, but never killed one. I can not tell the difference between a male and female in the water. Use no discrimination, but shoot everything that comes near the boat. Since the white man began to hunt seal they are becoming very scarce. Unless all sealing is stopped for a number of years the seal, like the sea-otter, will soon become extinct. Have never seen any pups born in the water or on the land anywhere on the coast of Alaska or British Columbia. Never known any fur-seals to haul up on the land in Alaska or British Columbia.

Experience.

Migration.

About one-half pregnant females killed.

Indiscriminate killing.

Decrease.

No pelagic birth.

Do not haul up on coast.

WALTER ^{his} × YOUNG.
mark.

Witness to his mark:

J. M. POTTER.

A. W. LAVENDER.

Subscribed and sworn to before me this 11th day of May, 1892.

A. W. LAVENDER,

United States Treasury Agent.

TESTIMONY TAKEN AT BARCLAY SOUND AND ELSEWHERE ON VANCOUVER ISLAND.

Deposition of Charlie, Nitnat Indian, scaler.

PELAGIC SEALING.

STATE OF WASHINGTON,
County of Clallam, ss :

Charlie, being duly sworn, deposes and says: I am a native Nitnat Indian, and belong to the tribe of Indians on Vancouver Island, British Columbia. I am 55 years old and reside at Pachelah Bay on Vancouver Island, British Columbia. I am by occupation a hunter and fisherman and have been so engaged ever since I have been able to paddle a canoe or spear a fish.

I sealed out from Neah Bay in the *C. C. Perkins* in 1891, and this year I am sailing on *James G. Swan*. Until the last eight or ten years I sealed out of Pachelah Bay with my tribe in canoes. We used to seal in the Straits of Juan de Fuca and up and down the coast from 10 to 20 miles off. Between that time and last year I went sealing from Pachelah and sealed up and down the coast between Columbia River and Barclay Sound, from 20 to 60 miles off the coast. I am familiar with all the bays and inlets on the west coast of Vancouver Island. I do not know of any place on this coast where seals haul up and breed, nor have I heard the Indians on Vancouver Island talk about any such place. Seals do not give birth to their young in the water nor on the kelp. Years ago seals were very plentiful from 5 to 10 miles from the shore. I could see them all around in bunches of from ten to twenty each, but since the white man has commenced to kill them with the rifle and shotgun (in the last five or six years), they have decreased very rapidly.

No hauling up or breeding on coast.

Pelagic birth impossible.

Decrease.

About ten years ago the first British schooner came into Pachelah Bay to get Indian hunters, and have been coming in there ever since, increasing in numbers year by year, till now there are nearly one hundred sealing schooners on the coast hunting seals. About seven years ago they commenced to kill seals with rifles and a little later they used shotguns, but I have always hunted with the spear; but very few Indians that go from Pachelah Bay or from Neah Bay use guns; we prefer the spear, because we are afraid that if we use guns they will get frightened away and not come back again, and also because we lose a great many of the seals that we shoot, but with the spear we make no noise and get almost all that we hit. There are about 100 seal hunters that live at Pachelah Bay and make their

Firearms.

Success with the spear.

living by hunting seals. I am a King George Indian, and sell my skins at Victoria, B. C. The Pachenah Indians use almost every part of the seals in some way. We sell the skins, eat the flesh, take the oil out of the blubber and use the paunch for holding it. Not quite half of all seals caught along the coast are cows with pups in them. About half are young seals, both male and female, and the rest (a small number) are medium-sized males. We never get any old bulls worth speaking of, and we do not catch as many gray pups now as formerly. Have not caught any gray pups this year. Do not know what has become of them. Have never caught any full-grown cows without pups in them, and have never caught any cows in milk along the coast. I never hunted seals with a gun; neither have I been in the Bering Sea.

Indians utilize almost entire seal.

Nearly half are pregnant females.

CHARLIE (his × mark).

Witness:

JOHN P. MCGLINN.
C. E. GAY.

Subscribed and sworn to before me on this 27th day of April, 1892.
[SEAL.] CLARENCE P. BROWN,

Notary Public in and for the State of Washington.

Deposition of Clat-ka-koi, native chief and sealer.

PELAGIC SEALING.

Clat-ka-koi, of the village of Toquat (Barclay Sound), and one of the chiefs thereof, being first duly sworn, deposes and says: That he is 50½ years of age, and belongs to the villages of Toquat and Sechart, at present residing in Toquat, and is a native of the village of Sechart. He states that to his knowledge the seals do not breed in the waters of Barclay Sound, but go ashore for that purpose a long distance to the northward. He does not hunt seal in schooners. He began sealing in his canoe, just off the west coast of Vancouver Island, shortly after last New Year, and fished for seal from five to seven miles off the coast and caught from five to ten seals a day. He says he averaged about five a day, in one canoe manned by two natives. This season this village (Toquat) got eighty-six seals, and four canoes were manned from this village. He has never seen seals on shore in Barclay Sound, or on kelp or other objects. When fishing outside he has never seen baby seals. Sometimes a few seals follow schools of herring into sound and go out hurriedly. On such occasions a few are killed. No sealing vessels touched here last year. His son is only Indian who went north from this village last year. He went in schooner *Ariel*, and caught one thousand and eighty (1,080), all in Bering Sea. No Indians have gone north from this village this year. He states that Ohiat is largest village in Barclay Sound. Population 260. The towns and populations are as follows: Mchuelet, 184; Toquat, 22; Sechart, 170; Mchuckleset, 34; Hopucheiset and Ohiat, 260.

Experience.

Seals do not breed in Barclay Sound.

Seals never seen on shore in Barclay Sound.

CLAT-KA-KOI (his × mark).

Attest:

E. T. WITHERSPOON.
HARRY GEORGE.

Deposition of Kickiana, sealer.

PELAGIC SEALING.

Kickiana, being duly sworn, deposes and says: That he is 20 years of age; is a native of Sechart village, and a son of Clat-ka-koi. Last year he went north in schooner *Ariel*, and spent one and one-half months in Bering Sea, with a crew of eight white men and sixteen Indians, and spent half of April and month of May. He caught 1,080 seal. They never show themselves out of water in the locality of Barclay Sound. He has seen them on beach in the Bering Sea. He never knew of one to be born in the water, and never heard of it. He has never seen baby seals in the vicinity of Barclay Sound. The white men lose a great many by shooting. The Indians lose fewer in their method by spearing. He thinks white men lose three out of five, on an average.

KICKIANA (his × mark).

Attest:

E. T. WITHERSPOON,
HARRY GEORGE.

Sworn to and subscribed before me this 21st day of April, 1892; and I further certify that the foregoing affidavits were read to Clat-ka-koi and Kickiana, and the contents fully made known to them by J. T. A. Bulfinch, duly sworn as interpreter, and that they fully understood the same.

[SEAL.]

OLIVER WOOD,
U. S. Commissioner for the district of Washington,
Residing at Port Townsend.

Clat-ka-koi understands and speaks English fairly well. Kickiana understands and speaks English fairly well.

OLIVER WOOD,
U. S. Commissioner for the district of Washington,
*Residing at Port Townsend.**Deposition of Dick, or Ehenchesut, one of the chiefs of Aguis et al.*

PELAGIC SEALING AND HABITS.

Dick, or Ehenchesut, first being duly sworn, deposes and says: That he is about 40 years of age, and one of the chiefs of the village of Aguis, Barclay Sound; is a native of this village, and a resident of the same. He states that during the last five months twenty-five canoes belonging to the village, manned by fifty men, have been engaged in sealing off the coast of Vancouver Island. They obtained in this time 10 skins per capita, in all 500 skins. To his knowledge, no seals ever came inside Barclay Sound, and that he never caught any inside, and, moreover, he and his friends never heard of any entering these waters. He states that there are no kelp patches outside, where seals resort or where they breed. The 50 men who went out from this village joined schooners, two in number, one of them commanded by Capt.

Experience.

Indians seal off coast
of Vancouver Island.No seals enter Bar-
clay Sound.

Douglass, and the seals were caught about 20 miles to southward and westward of Cape Flattery. Of the number caught 300 were caught and killed by the natives of this village, and were sold at Victoria and Port Townsend at \$12 per pelt. Last season the natives went out by themselves in canoes.

Prices received per skin.

No seals are ever killed in Barclay Sound by being dashed on the rocks, and none ever breed in Barclay Sound or vicinity. Aguis is a small village situated 1 mile east of Sechart. Witness was born here and has always lived here. Witness states that there are six villages on Barclay Sound, with a total population of about 1,000. The largest is Ohiat; Cleashun is chief or tgee; population 240, 100 being females.

Villages on Barclay Sound.

DICK, or EHENCHESUT (his × mark).

Attest:

E. T. WITHERSPOON.

W. C. HERBERT.

Clappa, first being duly sworn, deposes and says that he is 50 years age; a native and resident of Aguis; up to two years ago he hunted seals; his last hunt took place in a schooner manned by twenty men and ten canoes; hunted two months and caught 200 seals. Certifies evidence given by Dick or Ehenchesut to be true.

Clappa, Indian sealer.

Verifies statements of Dick or Ehenchesut.

CLAPPA (his × mark).

Attest:

E. T. WITHERSPOON.

W. C. HERBERT.

Saisun, being first duly sworn, deposes and says that he is 60 years of old; a native and resident of Aguis; quit seal-hunting four years ago. Last hunted in small schooner *Pictou* or *Victor*, William Gilbert, alias Billy the Butch, being in command. He spent two months outside in schooner with eight canoes and sixteen men. Obtained 200 skins. All were caught off Cape Flattery and Barclay Sound, about 40 miles off the shore. Certifies evidence given by Dick or Ehenchesut to be true.

Saisun, Indian sealer.

Pictou or *Victor*.

Catch.

Verifies statements of Dick or Ehenchesut.

SAISUN (his × mark).

Attest:

E. T. WITHERSPOON.

W. C. HERBERT.

Chakatt, being first duly sworn, deposes and says that he is 65 years of age, and a resident of Aguis. Certifies evidence given by Dick or Ehenchesut to be true.

Chakatt, Indian.
Verifies statements of Dick or Ehenchesut.

CHAKATT (his × mark).

Attest:

E. T. WITHERSPOON.

W. C. HERBERT.

Imihap, being first duly sworn, deposes and says that he is 65 years old, and a resident of Aguis. Certifies evidence given by Dick or Ehenchesut to be true.

Imihap, Indian.
Verifies statements
of Dick or Ehenchesut.

IMIhap (his × mark).

Attest:

E. T. WITHERSPOON.
W. C. HERBERT.

Oponyak, being first duly sworn, deposes and says that he is 65 years old. Is a native and resident of Aguis. Certifies the evidence given by Dick or Ehenchesut to be true.

Oponyak, Indian.
Verifies statements
of Dick or Ehenchesut.

OPONYAK (his × mark).

Attest:

E. T. WITHERSPOON.
W. C. HERBERT.

Chillta, being first duly sworn, deposes and says that he is a native and resident of Aguis. This year he and friend went out in canoe for one and a half months, and caught 20 seals picking them up here and there. Certifies that evidence given by Dick or Ehenchesut is true.

Chillta, Indian.
Verifies statements
of Dick or Ehenchesut.

CHILLTA (his × mark).

Attest:

E. T. WITHERSPOON.
W. C. HERBERT.

Sworn to and subscribed before me this 21st day of April, 1892, and I further certify that the foregoing affidavits were read to Dick or Ehenchesut, Clappa, Saisun, Chakatt, Imihap, Oponyak, and Chillta, and the contents fully made known to them by J. T. A. Bullfinch, duly sworn as interpreter, and that they fully understood the same.

[L. S.]

OLIVER WOOD,
*United States Commissioner for the District of
Washington, residing at Port Townsend.*

Deposition of John Margathe, storekeeper, Barclay Sound.

HABITS.

John Margathe, being duly sworn, deposes and says that for 23 years he has resided on the west coast of Vancouver Island, Victoria, Barclay Sound, etc., and that at present he owns a store in Uchulet, Barclay Sound, and is only white man residing in same. He states that fur-seal are rarely seen in Barclay Sound, and are usually found off the coast at a distance of from 5 to 15 miles. They are found in clear water, and never close to the land. Seals do not breed in the locality. A few one-year old pups have been caught during the winter. Last season 700 or 800 seals were caught off the coast by the natives of villages on Barclay Sound. There are about

Experience.

Seals rarely seen in
Barclay Sound.

Do not breed in
locality.

Catch by natives
off coast.

100 natives in this village. He is also agent for five sealing vessels owned in Victoria.

his
JOHN X MARGATHE.
mark.

Attest:

E. T. WITHERSPOON.

HARRY GEORGE.

Sworn to and subscribed before me this 21st day of April, 1892, and I further certify that the foregoing affidavit was read to John Margathe and that he fully understood the same.

[L. S.]

OLIVER WOOD,
*United States Commissioner for the District of
Washington, residing at Port Townsend.*

Deposition of Moses, Nitnat Indian sealer.

PELAGIC SEALING.

STATE OF WASHINGTON,

County of Clallam, ss:

Moses, being duly sworn, deposes and says: I am a native Nitnat Indian, and reside at Pachenh Bay on Vancouver Island, at Vancouver, British Columbia. I am 50 years old, and am by occupation a hunter and fisherman, and have been so engaged for about thirty years. I have sealed out from Neah Bay in the sealing schooner *C. C. Perkins* (that was last year), and this year I am sealing on the schooner *James G. Swan*. Formerly I sealed out of Pachenh Bay with my tribe in canoes. We used to seal in the straits of San Juan de Fuca, and all along the coast from the Columbia River to the upper end of Vancouver Island. I am familiar with all the bays and inlets on the west coast of Vancouver Island. I do not know of any place along the coast where seals haul out upon the land and give birth to their young; nor have I heard the Indians on the Vancouver Island talk about any such a thing. Seals do not give birth to their young in the water nor on the kelp. Years ago seals were much more plentiful than they are now, and I could see them all around in bunches on the water, but since the white man came here and commenced to kill them with the rifle and the shotgun, within the last five or six years, they have rapidly decreased in number.

Experience.

C. C. Perkins, 1891.

*James G. Swan,
1892.*

Do not haul up on coast.

Decrease.

Ten years ago a British schooner came up to Pachenh Bay to get Indian hunters, and schooners have been coming in there for that purpose every season since, increasing in number year by year until now there are nearly one hundred sealing schooners engaged in hunting seals along the coast. About seven years ago they commenced to hunt seals with rifles, and lately they use shotguns. Very few Indians that go from Pachenh or Neah Bay use guns. In hunting with the spear we make but little noise and

Increase of sealing fleet.

get almost all that we hit. There are about one hundred seal hunters that live at Pachenah Bay, and make their living by hunting seals. There is hardly any part of the seal but what is used in some way by the Indians. About half of all seals caught along the coast are cows with pups in them; a few medium-sized males are also taken, and the rest are young seals of both sexes. We scarcely ever see an old bull seal, nor can we tell the sex of the seals in the water. I have never caught any full-grown cows along the coast that did not have pups in them.

Ada, 1887.

In 1887 I went sealing in the Bering Sea on the British or Japanese schooner *Ada*. I do not know the name of her master, but he was a white man. She carried seven canoes, each manned by two Indians, and one stern boat with three white men. The Indians hunted with spears and the white men with guns. We sealed around Unalaska, but did not go toward the Pribilof Islands. We caught 1,900 seals, all of which were captured in the sea, close to Unalaska; most all of them were cows in milk; but when we first entered the sea we killed a few cows that had pups in them. We were seized, while in there, about the 1st of August, by the United States revenue-cutter *Bear*, and all of our skins were taken away.

Minnie, 1889.

In 1889 I went again to the sea in the sealing schooner *Minnie*, Jacobson, master. She carried eight canoes and two boats. Two Indians who used spears were employed in each canoe, and three white men, using guns, were in each boat. One boat with three white men got more seals than one canoe with two Indians. The white men shot a great many seals that they did not get, but the Indians secured nearly all that they speared. That year we sealed east of the island and caught about 800 seals. I do not know how far we were from the islands, for we could not see them. The seals we caught were mostly cows with milk.

Minnie, 1891.

In 1891 I went up to the Bering Sea in the same vessel, and she had the same master and carried the same number of boats and canoes. That year we sealed to the northwest of the islands and caught 700 or 800 seals. When I was in the sea in 1887 seals were very plentiful there, but in 1889 there were not so many, and in 1891 there were fewer still, and I think after awhile they will all soon be destroyed if they keep on hunting them with guns. When in Bering Sea I had an opportunity to observe the difference in the number of seals lost by killing them with shotguns and by taking them with spears. The hunters that used shotguns lost more than one-half they shot, while the hunters that used spears seldom ever lost one that they hit.

MOSES (his x mark).

Witness:

C. P. BROWN.

C. E. GAY.

Subscribed and sworn to before me on this 27th day of April, A. D. 1892.

[SEAL.]

CLARENCE P. BROWN,
Notary Public in and for the State of Washington,
Residing at Port Angeles, Washington.

Deposition of Francis Verbeke, residing at Port Angeles, Washington, Roman Catholic priest, in charge of mission in village of Chapies.

Francis Verbeke, being first duly sworn, deposes and says that he is a Roman Catholic priest, in charge of Roman Catholic mission in village of Chapies, on Todgers Cove. He has resided in Chapies four winters. He has never seen or heard of seals inside Barclay Sound. They are all found outside. Last year was a very bad season. The Indians think scarcity of seals is due to the method of hunting them adopted by the whites, by which the seals are scared away. He has never heard of seal breeding here and has never seen any seal. Witness states he is only white resident of village.

Pelagic sealing.
Decrease.

REV. F. VERBEKE.

Sworn to and subscribed before me this 21st day of April, 1892; and I further certify that the foregoing affidavit was read to Francis Verbeke and that he fully understood the same.

[L. S.]

OLIVER WOOD,

*U. S. Commissioner for the District of Washington,
Residing at Port Townsend.*

Deposition of Weckenunesch, Indian chief of the village of Mchulet.

HABITS.

Weckenunesch, being duly sworn, deposes and says that he is a chief of the village of Mchulet (Barclay Sound), and a resident of this village. He states that fur-seal do not come in close to shore in this locality, and are never found on land. Seals are caught off the coast at from 5 to 20 miles. They do not breed in this locality, and nothing of the kind is known in the memory of the oldest inhabitant. Formerly the Indians hunted them for food, but nowadays white men and Indians hunt them for their fur, and they are rapidly diminishing in number. Heretofore the natives have always used canoes, but the white men hunt them from schooners, use firearms, and get about two out of five. Last year there were fewer than ever before. This season the natives caught about one-half as many as last. In his opinion the seals will soon be exterminated, and in three years there will be no more sealing,

Experience.

Seals do not haul up on coast.

Waste of life.

Decrease.

WECKENUNESCH (his × mark).

Attest:

E. T. WITHERSPOON.
W. C. HERBERT.

Makeshow, being duly sworn, deposes and says that he is a resident of this village and that the evidence given by Weckenunesch is true.

MAKESHOW (his × mark).

Attest:

E. T. WITHERSPOON.
W. C. HERBERT.

Clahowto, being duly sworn, deposes and says that he is a resident of the village, and that the evidence given by Weckenunesch is true.

CLAHOWTO (his × mark).

Attest:

E. T. WITHERSPOON.

W. C. HERBERT.

Charley Hayuks, being duly sworn, deposes and says that he is a resident of this village and is chief of police of same. He certifies that the evidence given by Weckenunesch is correct.

CHARLEY × HAYUKS.
his
mark.

Attest:

E. T. WITHERSPOON.

W. C. HERBERT.

Sworn to and subscribed before me this 21st day of April, 1892; and I further certify that the foregoing affidavits were read to Weckenunesch, Makeshow, Clahowto, and Charley Hayuks, and the contents fully made known to them, by J. T. A. Bulfinch, duly sworn as interpreter, and that they fully understood the same.

[SEAL.]

OLIVER WOOD,
*U. S. Commissioner for the District of Washington,
Residing at Port Townsend.*

Charley Hayuks understands and speaks English fairly well.

TESTIMONY TAKEN AT VICTORIA, BRITISH COLUMBIA.

Deposition of Peter Anderson, sealer (boat-steerer).

PELAGIC SEALING.

Peter Anderson, being duly sworn, deposes and says: I reside in Victoria, British Columbia; am by occupation a seaman and hunter; have been engaged in the last three years in taking seal in the North Pacific Ocean and Bering Sea in capacity of boat-steerer. The vessels I was employed on are as follows: *Black Diamond*, *Ariel*, and *Umbrina*, all British schooners. First saw and took seal off Cape Flattery in March and we followed them clear up the coast into Bering Sea, where we arrived about July 1. We used the shotgun and rifle exclusively in the boats I was in. From my experience I am satisfied that 33½ per cent shot with a shotgun are lost, and when a rifle is used a larger per cent are lost when killed. A large majority of seal taken on the coast and in Bering Sea are cows, with pup in the Pacific Ocean and with milk in Bering Sea. A few young male seal are taken in the North Pacific Ocean from 2 to 3 years old. Have never taken an old bull in the North Pacific Ocean in my life. A few yearlings have been taken by me, but not many. Use no discrimination, but kill all seal that come near the boat. The best way to shoot seal to secure them shoot them in the back of the head when they are asleep with their noses under water. Have never known any seal pups to be born in the water nor anywhere else in Alaska outside of the Pribilof Islands, nor have I ever known fur-seal to haul up anywhere on the land except on the Pribilof Islands. Have taken females that were full of milk 60 miles from the Pribilof Islands. I think seal ought to be protected in the North Pacific and Bering Sea from April 1 to September 1, in order to give them a chance to raise their young.

Experience.

Black Diamond, Ariel, and Umbrina.

Appearance of seals off coast.

Waste of life.

Mostly pregnant or nursing cows.

Indiscriminate killing.

Not born in water nor outside of islands.

Females feeding.

Protection.

PETER ^{his} × ANDERSON.
mark.

Witness:

J. M. POTTER.

Subscribed and sworn to before me this 5th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of H. Andricius, sealer (boat-steerer).

PELAGIC SEALING.

DOMINION OF CANADA,

Victoria, British Columbia, ss.:

H. Andricius, being duly sworn, deposes and says: My age is 21 years; occupation, seaman; and live in Victoria, British Columbia. I first sailed in 1891 in the vessel *N. E. Paint*, Bisit, master, as boat-steerer. We cleared in April from Victoria, British Columbia, and had six boats, with three men to each boat. The hunters used shotguns. We sealed along the coast and captured 154; most all of them were pregnant females; we lost fully three out of four that we killed. We did not enter the Bering Sea this year. There is no place on the coast where the seals haul up and give birth to their young; they never give birth on the kelp. I returned to Victoria and was discharged in October. On January 27, 1892, I went seal hunting again as boat-puller on the *Labadore*, Whitly, master. She carried three boats, three men to each boat, all white men. We commenced sealing outside of Cape Flattery and sealed to the northward up the coast. I know that the seals are more scarce this year than they were last year. I do not think it is right to kill the mother seals with pups in them. It is almost impossible to distinguish the male from the female at a distance in the water.

I came back in the schooner *Minnie*, Tyson, master, about the 4th of March; I shipped from Clayquot, as steerer; she had three boats, and two men to each boat, all white men, who used shotguns. This year the shotguns were used more than rifles. We only got five seals. They are very wild this year and very difficult to catch on account of their having been hunted so much. The captain returned to Victoria with his vessel because he could not make it pay in the seal-hunting business. I returned to Victoria on the 20th of April. I do not think it is right to kill the mother seals before they have given birth to their young, as it is a fact that when we kill the mother seal we also kill her pup. They should not be hunted for six weeks after giving birth to their young.

H. ANDRICIUS.

Subscribed and sworn to before me on this 22d day of April, A. D. 1892.

[SEAL.]

LEVI W. MYERS,
United States Consul.

Deposition of Bernhardt Bleidner, sealer (boat-puller).

PELAGIC SEALING.

DOMINION OF CANADA,

Victoria, British Columbia, ss.:

Bernhardt Bleidner, being duly sworn, deposes and says: I reside at Victoria, British Columbia; am 32 years of age; my occupation, seaman. In 1887 I

shipped on the schooner *Challenge*, Jones, master, as boat-puller. She carried four boats and three men to each boat, all white men, who used shotguns in hunting the seals. We left Port Townsend in May and sailed south to Cape Flattery and then went north along the coast until we came to Unimak Pass, and captured from three to four hundred seals. Most all were females and had pups in them. I think fully two-thirds of all we caught were females, and a few were bulls. On an average we saved one out of three that were killed. We were seized in the Unimak Pass and taken to Unalaska and all the skins were taken away from us. The vessel was released and we returned to Seattle the latter part of September. We tried to shoot the seals in the head or heart, for if we shot them in any other place we would lose them, and if we killed them dead they would sink and many of them we could not get.

Challenge, 1887,
seized.

Females principally
caught.

In January, 1889, I again shipped from Victoria, British Columbia, in the schooner *Walter Rich*, Stewart, master; we carried 6 boats and 1 stern boat, 3 men to each boat, all white men, who used rifles and shotguns. We always tried to slip up on them and shoot them while they were asleep. We secured 500 skins along the coast, most all of which were pregnant females, and returned to Victoria the latter part of April. There is no place on the coast where the seals haul up on the land and give birth to their young, nor do they ever give birth to their young on the kelp. It is almost impossible to distinguish the female seals from the male in the water, unless it is an old bull. I don't think it is right to kill the mother seal before they give birth to their young, for it is a fact that when you kill the mother you also kill her pup. I don't think the seals are as plentiful as they were last year, and the hunting of them should be stopped in the North Pacific Ocean.

Water Rich, 1889.

Pregnant females
principally taken.

Rookeries only on
Pribilof Islands.

Decrease.

Prohibition neces-
sary.

BERNH. BLEIDNER.

Subscribed and sworn to before me on this 22d day of April, A. D 1892.

[SEAL.]

LEVI W. MYERS,
United States Consul.

Deposition of Niels Bonde, sealer (mate).

PELAGIC SEALING.

PROVINCE OF BRITISH COLUMBIA,

City of Victoria, ss:

Niels Bonde, being duly sworn, deposes and says: I am 24 years of age; residence, Victoria, British Columbia; occupation, seaman. I went sealing as deck hand in the British schooner *Kate*, Capt. Moss, master, in 1887. We had twenty canoes and Indian hunters who used spears, except in calm weather, when they would use shotguns. We sailed from Victoria the 15th of March, sealing off Barclay Sound, between there and Cape Cook, and caught 522 seals. Came back to Victoria in May, discharged our skins and then went to Bering Sea, arriving there in July. We came out of the Bering

Experience.

Kate, 1887.

Bering Sea.

Sea the latter part of August, and had caught about 1,700 seals between the Pribilof Islands and Unalaska; we caught them from 10 to 100 or more miles off St. George Island. The largest catch we had that year in any one day was 266 seals. We only took eight canoes and one boat into

Bering Sea.

In 1888 I left Victoria on the 11th of April as mate and interpreter on the British schooner *Arannah*, H. F. Siewart, master, and carried sixteen canoes while sealing on the coast and Indian hunters with spears, but in calm weather they used shotguns. We caught about 100 seals on the coast, and then in the latter part of May left for the Commander Islands, on the Russian side of the Bering Sea, and was seized on the 1st of July by the Russian authorities.

I left Victoria on the 28th of May, 1889, in the British schooner *Kate* as deck hand, with ten canoes and Indian hunters with spears and shotguns. The Indians used spears chiefly. We went directly to the Shumagin Island, where we took in water and provisions, and went into Bering Sea through Unamak Pass, and sealed in those waters till some time in August, when we were ordered out by the revenue cutter and went to Victoria. We caught a little over 800 seals in the Bering Sea that year.

In 1890 I left Victoria on the 17th of January in the British schooner *Pioneer*, Morgan, master. I shipped as a deck hand. We had five boats and white hunters, who used shotguns and rifles. We commenced sealing off the California coast, near Cape Blanco, and worked our way up the coast to Barclay Sound, and caught about 400 seals and put them aboard another vessel and then sealed along the coast to Bering Sea, and caught on our way up and in the sea about 1,600 more, and left Bering Sea for Victoria the latter part of August.

Theseals caught along the coast after the 1st of April are mostly pregnant females, and those caught in Bering Sea were females that had given birth to their young. I often noticed the milk flowing out of their breasts when being skinned, and have seen them killed more than 100 miles from the seal islands. I have seen live pups cut out of their mothers and live around on the decks for a week. On the *Pioneer* we had a couple of good hunters who would get almost all they shot at, while some of our hunters would lose a good many that they would kill and wound.

Waste of life. A green hunter will not get more than one out of five, and I have known one hunter on our vessel who shot eighty shots and got only four seals. Indian hunters that use spears seldom lose any that are struck, and there is no wounded to go away and die. I can not say positively as to the decrease in numbers, but I know they are much more shy now than when I commenced sealing.

No hauling-up place on coast. I know of no place where seals haul up on the coast, nor do I believe there is any.

NIELS BONDE.

Subscribed and sworn to before me on this 22d day of April, A. D. 1892.

[SEAL.]

LEVI W. MYERS,
United States Consul.

Deposition of Henry Brown, sealer (boat puller).

PELAGIC SEALING.

PROVINCE OF BRITISH COLUMBIA,

City of Victoria, ss :

Henry Brown, being duly sworn, deposes and says: I am 42 years of age, and reside in Victoria, British Columbia. I am by occupation a seaman. On or about February 21, 1890, I shipped as an able seaman, but did service as a boat steerer on the sealing schooner *Minnie*, which cleared from Victoria. She carried twelve canoes and a stern boat. Each canoe was manned by two Indians, who used spears principally. The stern boat was manned by white men, who used rifles and shotguns, principally shotguns. I acted as steererman in the stern boat. We hunted seals all along the coast from Grays Harbor to the passes leading into Bering Sea. The first seals seen were about 30 miles south and west of Cape Flattery. We then followed the herd northward, capturing about 1,000 seals on the coast, which we transferred to the American steam schooner *Mischief* at sea, about 15 miles from Sand Point. We then proceeded to the Bering Sea, entering through the Unamak Pass about the middle of July. We captured over 1,200 seals, all the way from 24 to 100 miles away from the Pribilof Islands. We then returned to Sand Point, and arrived back at Victoria about the last of November.

Experience.

Minnie, 1890.

Appearance off coast.

Catch off coast.

Transfer of cargo to schooner *Mischief*.

Bering sea, time of entering.

Catch in sea from 24 to 100 miles from islands.

On January 19, 1891, I shipped at Victoria as an able seaman, and took the boat steerer's billet on the sealing schooner *Mascot*, Lawrence, master. She carried one stern boat and ten canoes. The canoes were manned by Indians, who used spears in hunting the seals, and the stern boat, in which I was steerer, was manned by three white men. The hunter used a shotgun. We sealed all along the coast from Cape Flattery up to Cape Cook, on Vancouver Island, and captured 9 seals. The only one taken by the stern boat was a female with a pup in her. The pup was thrown into the ocean. On the 22d of May we arrived back in Victoria.

Mascot, 1891.

Catch.

On the 25th of February, 1892, I shipped at Victoria, British Columbia, on the sealing schooner *May Belle*, Smith, master. I shipped as an able seaman and did service in the stern boat as boat steerer. She also carried ten canoes, each being manned by two Indians, who used the spear in hunting. We sealed along the coast from Destruction Island as far north as Triangle Island, off the Vancouver shore, and captured but one female seal. On the 18th of April I left the *May Belle* at Clayaquot Sound, and returned to Victoria on the 5th of May on the steam schooner *Maud*.

May Belle, 1892.

Catch.

The seal captured by us along the coast in 1890 were all gravid females. I do not know the sex of those taken by our Indians on the coast in that year. We did not capture any gravid seals in the Bering Sea. Nearly all the seals taken in Bering Sea were cows in milk. We captured a few young seals in the sea of both sexes.

Coast catch in 1890. Pregnant cows.

Nearly all taken in Bering Sea nursing. Waste of life.

In 1890 our hunter in the stern boat secured 60 seals, and lost over 200 seals that he wounded. The Indians make a sure work of it, and secure nearly every seal that they spear. They do not make so much noise in approaching a sleeping seal as the white hunters do. When an Indian in a canoe is approaching a bunch of seals asleep on the water he does not remove his paddle from the water, but dexterously and noiselessly moves it in the water, because the least sound would awaken the seals. The hunter who uses a gun not only disturbs the seal he shoots, but awakens and disturbs the others, who then make their escape.

In 1891 I noticed that there was a considerable decrease in the number of seals seen in the water; also that they were more shy and wakeful as compared with my observations in 1890. A cow seal that's heavy with pup is sluggish, and sleeps more soundly than the males, and for that reason they are more readily approached. I have never known a black pup to be captured on the coast. Seals do not haul out upon the land along the coast, nor give birth to their young on the kelp or in the water. I have never heard the Indians or white sealers say that there is a place on the coast where seals haul out and breed. A great many seals that are shot would sink before we could secure them. Sometimes the water above the sinking seal would be so discolored by the blood that it was impossible to see it and secure it with the gaff-hook, which all sealing boats carry for that purpose. If pelagic sealing is continued, especially with guns, in a few years the seal herd will become commercially destroyed. Nearly every seal captured causes the death of either an unborn pup, or the death of a young pup by starvation on the islands. All pelagic sealing should be prohibited after April 1 of each year until such time as the young pups are able to subsist without nourishment from their mothers. It is practically impossible to distinguish the age or sex of seals in the water while approaching them while at a reasonable gunshot distance from them, excepting in the case of old bulls. Old bulls and male seals appear to enter Bering Sea before the cows leave the coast. Our last catch of seals on the coast were almost exclusively gravid females.

Do not haul up on coast and are not born in water or on kelp.

Protection by a close season necessary.

his
HENRY X BROWN.
mark.
JOHN MCLEOD.

Subscribed and sworn to before me this 7th day of May, 1892.

[SEAL.]

LEVI W. MYERS,
United States Consul.

Deposition of Thomas Brown (No. 1), sealer (boat puller).

PELAGIC SEALING.

DOMINION OF CANADA,

Victoria, British Columbia, ss:

Thomas Brown, being duly sworn, deposes and says: My age is 31 years, my residence is Victoria, British Columbia; occupation, seaman. I went sealing in 1889 from San Francisco, Cal., (I do not remember the name of the vessel) Capt. Scott was master;

we sealed as far south as San Diego, Cal., then went along the coast to Farallone Islands, opposite San Francisco. We had five boats, three men to each boat, and one stern boat, all white men; we used shotguns and rifles; the seals were very plentiful that year; most all the seals that we shot and secured were females and had young pups in them, and we would sometimes skin them. If we didn't get to a seal soon after it was shot it would sink, and we lost a great many; probably got about one out of five of all the seals shot. We sealed as far as Queen Charlotte Islands and got about 195 seals in the two months' sealing. We did not enter Bering Sea that year.

Firearms used.

Waste of life; mostly pregnant females.

In 1890 I went sealing again in the schooner *Sea Lion*, Madison, master; had five boats and three men to each boat; I was boat puller; we were sealing about three months and got about 400 seals, most all females. This year the seals were wilder than the year before; I think it was because they were being hunted so much. We did not capture as many in proportion to the number shot as we did the year previous, and did not save more than one out of six that we shot. We did not enter Bering Sea, and returned to Victoria in April. Our catch was fully 80 per cent females. I do not think that seals give birth to their young on the kelp.

Sea Lion, 1890.

Waste of life; mostly females.

In 1891, in the month of February, I sailed from Victoria, British Columbia, on the schooner *Thistle*, Nicherson, master, on a sealing voyage. We had seventeen boats and three men to each boat; all white men. I signed as boat puller. Commenced sealing off Cape Flattery and all the seals which we caught were pregnant females. I did not see as many seals as the years previous; I left the vessel in April at Victoria, British Columbia. The seals upon this voyage were more shy than in 1889 and more difficult to capture. During the trip of 1891 I don't think we got more than one seal out of six that we killed; many were wounded and others were shot dead and sank before the boat could get to them. The seals are decreasing in number rapidly, and in order to prevent the extermination of seals the hunting of them should be prohibited until after the mother seals give birth to their young. Sealers should be notified of a closed season before they go to the expense of fitting out.

Thistle 1891.

Waste of life; mostly pregnant females.

Decrease.

Close season necessary.

THOMAS BROWN.

Subscribed and sworn to before me on this 22d day of April, A. D. 1892.

[SEAL.]

LEVI W. MYERS,
United States Consul.

Deposition of Christ Clausen, sealer (master).

PELAGIC SEALING.

DOMINION OF CANADA,
Victoria, British Columbia, ss:

Christ Clausen, being duly sworn, deposes and says: I reside at Victoria, British Columbia; occupation, master mariner, and

Experience. am 32 years of age. I went seal hunting in 1889, as mate of the British schooner *C. H. Tupper*, Capt. Kelly, master. She carried seven boats and white hunters, who used mostly shotguns. Sailed from Victoria in February, and commenced sealing off the California coast and hunted seals all along the coast to Unamak Pass, and went into the sea the 2d of July and caught seals around the eastern part of Bering Sea until the latter part of September, and then returned to Victoria. We had very poor hunters and only caught 600 that season, 400 of which we took in the sea.

In 1890 I was navigator in the British schooner *Minnie*, and was equipped with canoes and Indian hunters, who used spears chiefly. Sailed from Victoria and hunted along the coast up the Unamak Pass and entered Bering Sea about the 10th of July, and hunted off the Pribilof Islands until about the 1st of September and then returned to Victoria. My catch that year was 2,600, of which about 2,000 were caught in the Bering Sea.

In 1891 I went as navigator in the same vessel and with the same crew, and they used spears in hunting. We sailed from Victoria and hunted along the coast over the same course we did the year before, and went into Bering Sea through the Unamak Pass, about the middle of July, and caught only about 400 that season, none of which were taken in Bering Sea. We were warned out of the sea before we lowered any boats and returned to Victoria.

The Indian hunters, when they used spears, saved nearly every one they struck. It is my observation and experience that an Indian, or a white hunter, unless very expert, will kill and destroy many times more than he will save, if he uses firearms.

Waste of life with firearms. It is our object to take them when asleep on the water, and any attempt to capture a breaching seal, generally ends in failure. The seals we catch along the coast are nearly all pregnant females. It is seldom we capture an old bull, and what males we get are usually young ones. I have frequently seen cow seals cut open and the unborn pups cut out of them and they would live for several days. This is a frequent occurrence. It is my experience that fully 85 per cent of the seals I took in Bering Sea, were females that had given birth to their pups, and their teats would be full of milk. I have caught seals of this kind from 100 to 150 miles away from the Pribilof Islands. It is my opinion that spears should be used in hunting seals, and if they are to be kept from extermination the shotgun should be discarded.

Nearly all pregnant females. Eighty-five per cent milking females. Prohibition of shotgun necessary.

CHR. CLAUSEN.

Subscribed and sworn to before me on this 23d day of April, A. D. 1892.

[SEAL.]

LEVI W. MYERS,
United States Consul.

Deposition of Louis Culler, sealer (boat-puller).

PELAGIC SEALING.

PROVINCE OF BRITISH COLUMBIA,

City of Victoria, ss:

Louis Culler, being duly sworn, deposes and says: I am 28 years old, and reside at Port Townsend, State of Washington. I am by occupation a civil engineer. In 1888 I shipped at Victoria, British Columbia, as a boat-puller on the sealing schooner *Oscar and Hattie*, Gault, master. She carried seven boats, each being manned by three white men, who used shotguns. We sealed along the coast from Cape Flattery up to the passes leading into Bering Sea, capturing about 1,400 seals before entering the sea. We entered the sea through the Unamak Pass, and captured seals therein, after which we returned to Victoria. In 1889 I shipped at Victoria as a hunter on the sealing schooner *Maggie Mac*. She carried seven boats, each manned by three white men, who used shotguns in hunting the seals. We sealed along the coast from Cape Flattery up to the Aleutian Islands, and captured 340 seals before entering Bering Sea. We caught more seals in the sea that year than we captured before entering therein. After sealing there awhile we returned to Victoria. In June, 1891, I shipped as a hunter on the sealing schooner *Otto*, Riley, master. There were two newspaper correspondents aboard, King Hale, representing the New York Herald, and Mr. McManns, of Victoria. The *Otto* carried three sealing boats, each manned by white men, who used shotguns, and two canoes, manned by Indians, who used spears. We sailed up along the coast toward Bering Sea and captured five seals, all being gravid females. I noticed these seals particularly, because there were but few of them. I kept a memorandum of the transactions of the voyage, and noted in my book seals taken and their sex. We entered the sea through the Unamak Pass, and captured therein about 40 seals, most all of which had milk in their breasts. After taking these seals we returned to Victoria, British Columbia, about the 25th of September.

My observation of the seal-hunting by white hunters in 1888 is that they do not secure more than 2 or 3 out of every 100 shot. The number of shots fired by a hunter in an ordinary day's sealing is something enormous, and the waste of seal life in the water is dreadful to contemplate. My observations and experience in 1889 were about the same as in the previous year, except as to the number of seals seen, which was much smaller. There was a perceptible decrease in the number of seals seen by me in the year 1889 as compared with the year 1888. The proportion of loss of seals shot by white hunters in the *Otto* was quite as great in 1891 as by the hunters in the year before stated. I have never seen any black pups in the North Pacific Ocean. The seals do not give birth to their young in the water, nor upon the kelp. If the present practice of seal-hunting be continued, it

Experience.

Oscar and Hattie, 1888.

Catch off coast.

Entered Bering Sea.

Maggie Mac, 1889.

Catch off coast.

Entered Bering Sea.

Otto, 1891.

Coast catch, pregnant females.

the number of

Catch in Bering Sea; nursing cows.

Only 3 per cent saved.

Waste of life.

Decrease.

Seals not born in water or on kelp.

will be a matter of a short time when the seal herd will be commercially destroyed. I think there should be what is called a close season in seal-hunting in the water, to extend from the 1st of April till such time after the cows have given birth to their young and have reared them to an age at which they can live without sustenance from their mother. The Indian hunters secure at least eight out of every ten of the seals that they spear. They do not make as much noise, nor frighten the seals as badly as hunters who use guns.

Protection by a close season necessary.

Success of Indians as hunters.

LOUIS CULLER.

Subscribed and sworn to before me this 7th day of May, 1892.

[SEAL.]

LEVI W. MYERS,
United States Consul.

Deposition of Alfred Dardean, sealer (boat-puller.)

PELAGIC SEALING.

DOMINION OF CANADA,

Victoria, British Columbia, ss:

Alfred Dardean, being duly sworn, deposes and says: I reside at Victoria, British Columbia. My occupation for the last two years has been that of a seaman. I went sealing in the schooner *Mollie Adams* (afterwards changed to *E. B. Marvin*) as boat-puller. We left Victoria, British Columbia on the 27th of May, 1890, and commenced sealing up the coast toward Bering Sea; entered Bering Sea through the Unamak Pass about July 7 and sealed around the eastern part of Bering Sea until late in the fall. We caught over 900 skins before entering the sea and our whole catch that year was 2,159 skins. Of the seals that were caught off the coast fully 90 out of every 100 had young pups in them. The boats would bring the seals killed on board the vessel and we would take the young pups out and skin them. If the pup is a good, nice one we would skin it and keep it for ourselves. I had eight such skins myself. Four out of five, if caught in May or June, would be alive when we cut them out of the mothers. One of them we kept for pretty near three weeks alive on deck by feeding it on condensed milk. One of the men finally killed it because it cried so pitifully. We only got three seals with pups in them in the Bering Sea. Most all of them were females that had given birth to their young on the islands, and the milk would run out of the teats on the deck when we would skin them. We caught female seals in milk more than 100 miles off the Pribilof Islands.

Experience.

Mollie Adams, afterwards the E. E. Marvin, 1890, in Bering Sea.

Mostly pregnant females.

Females feeding.

We had seven boats, and a stern boat and three men to a boat. Our hunters used shotguns, and were good hunters. They lost a good many seals, but I do not know what proportion was lost to those killed. Some of the hunters would lose four out every six killed. We tried to shoot them while asleep, but shot all that came in our way. If we killed them too dead a great many would sink before we could get them and were lost. Sometimes we could get some of these that had sunk with the

Waste of life.

Indiscriminate.

gaff hook, but could not save many that way. A good many are wounded and escape only to die afterwards.

Hunters talk about the seals increasing from year to year, but I know they are decreasing, and if they keep on killing them the way they do now there will not be any left in a few years.

Decrease.

his
ALFRED X DARDEAN.
mark.

Subscribed and sworn to before me on this the 22d day of April, A. D. 1892.

[SEAL.]

LEVI W. MYERS,
United States Consul.

Deposition of George Dishow, scaler.

PELAGIC SEALING.

George Dishow, being duly sworn, deposes and says: I reside at Victoria, British Columbia; am by occupation a seal hunter; have been engaged in the business six years. Was on the *Triumph*, *Favorite*, *Penelope*, two seasons on the *Umbrina*, and one season on the American schooner *Walter Rich* hunting seal in the Pacific Ocean, Bering Sea, and on the Russian side of the Bering Sea. First found and taken seal off Cape Flattery in January and followed them up the coast into Bering Sea, which they enter about June 20. I use a shotgun exclusively for taking seal. Old hunters lose but very few seal, but beginners lose a great many. I use the Parker shotgun. A large proportion of all seals taken are females with pup. A very few yearlings are taken. Never examine them as to sex. But very few old bulls are taken, but five being taken out of a total of 900 seals taken by my schooner. Use no discrimination in killing seal, but shoot everything that comes near the boat in shape of a seal. Hunters shoot seal in the most exposed part of the body. Have never known any pups to be born in the water, nor on the land on the coast of Alaska anywhere outside of the Pribilof Islands. Have never known fur seal to haul up on the land anywhere on the coast except on the Pribilof Islands. Most of the seals taken in Bering Sea are females. Have taken them 70 miles from the islands that were full of milk. I think a closed season should be established for breeding seal from January 1st to August 15th in the North Pacific Ocean and Bering Sea.

Experience.

Migration.

Large proportion taken females with pup.

Indiscriminate killing.

Pups not born in water nor anywhere outside Pribilof Islands.

Fur seals do not haul up on land except on Pribilof Islands.

Closed season necessary.

GEORGE DISHOW.

Subscribed and sworn to before me this 1st day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of E. M. Greenleaf, sealer (master).

PELAGIC SEALING.

PROVINCE OF BRITISH COLUMBIA, *Victoria, ss:*

E. M. Greenleaf, being duly sworn, deposes and says: I have resided in Victoria, British Columbia, since 1884. My occupation is that of a seafaring man and have a commission as master mariner. Was shipping agent in this port for three years. In 1891 I went on a sealing cruise as master of the schooner *Mountain Chief*, leaving Victoria on May 12. I went to the mouth of San Juan River, on the coast of Vancouver Island, opposite Neah Bay, and continued sealing along up the coast almost as far north as Kodiak Island. My vessel then sprung a leak and I was compelled to return to this port, which I reached about July 1. We captured 63 seals, all of which were females, and all were pregnant. With regard to pregnancy I may note that the seals taken off the coast of Vancouver Island were not as far advanced as those taken farther north. I had six canoes, with Indian hunters, who used both spears and shotguns. Indians lose a less number of the seals shot at and wounded or killed than white hunters. When they use spears they get nearly all they wound. When they use shotguns they do not get more than one out of eight killed or wounded.

I was interested in the schooner *Sarah W. Hunt* that made a voyage from New York to the South Atlantic in 1882-'83, leaving in September of 1882, on a sealing venture. The intention was to visit the Georgian and South Shetland Islands. Since then I have been interested in the sealing business, and am well acquainted with it and the men engaged in it and the methods they employ. I am acquainted with the hunters and masters who sail from this port, and board all incoming and outgoing vessels of that class. These men all acknowledge that nearly all the seals taken off the Pacific coast are females, and that they are nearly all with young. The seals are found off the coast of California in January of each year, and the sealing fleet goes along with them as they proceed northward, never losing track of them and fishing every good day. By the latter part of June fleet and seals have arrived in the vicinity of the Aleutian Island grasses. Pregnancy is now far advanced and young ones taken from their dead mother's womb have lived several days on the decks of the ships. Those that I caught last year—the pups, I mean—were thrown overboard.

In conversation with boat-steerers and boat-pullers I have frequently heard them state that hunters would sometimes fire from 75 to 100 shots without bringing in a single seal. The hunters would claim they secured nearly all they fired at or killed, but it is known that this is not true. It is impossible to say what proportion of the seals fired at are killed or wounded, but taking the run of hunters, good and poor, I should say that the best get about 50 per cent of those shot at, while the poorest do not get more than one out of fifteen fired at. I have also learned by conversation with Bering Sea hunters that they kill seal cows 20 to 200 miles from the breeding grounds and that these cows had recently given birth to young. I have

Experience.

Mountain Chief, 1891.

Mostly females; all pregnant.

Get one out of eight struck.

Nearly all taken off Pacific coast pregnant females.

Seals appear off California in January.

Best shots get 50 per cent and poorest 1 out of 15.

Milking cows killed 20 to 200 miles from rookeries.

observed in the skins that the size of the teats shows either an advanced state of pregnancy or of recent delivery of young. To my knowledge, and from conversation with others, I can state positively that seals have decreased rapidly in numbers off the Pacific coast in the last five or six years. A schooner used to secure from 700 to 1,400 skins for a spring catch, whereas now, with all the improved appliances of arms and vessels, the largest catch is less than 500.

Decrease.

The boat-steerer is supposed to be the most intelligent and competent man on the boat, as he has charge and bears the same relation to the boat that the captain does to a vessel. A very large number of shots are thrown away. In the case of the *Thistle*, in her voyage of 1891, she brought in but 9 skins, while her hunters had fired away 260 pounds of shot. She had poor hunters.

Waste of ammunition.

E. M. GREENLEAF.

Subscribed and sworn to before me, at my office in Victoria, British Columbia, this 20th day of April, in the year of our Lord 1892. Witness my hand and seal of office.

[L. S.]

LEVI W. MEYERS,

United States Consul at Victoria, British Columbia.

Deposition of Arthur Griffin (sealer), boat puller and steerer.

PELAGIC SEALING.

DOMINION OF CANADA,

Victoria, British Columbia, ss:

Arthur Griffin, being duly sworn, deposes and says: My age is 24 years, and am by occupation a seafaring man and reside at Victoria, British Columbia. On February 11, 1889, I sailed from Victoria, as a boat-puller, on the sealing schooner *Ariel*, Buckman, master. She carried six hunting boats and one stern boat, and had a white crew, who use shotguns and rifles in hunting seals. We began sealing off the northern coast of California and followed the sealing herd northward, capturing about 700 seals in the North Pacific Ocean, two-thirds of which were females with pup; the balance were young seals, both male and female. We entered the Bering Sea on the 13th July, through the Unimak Pass, and captured between 900 and 1,000 seals therein, most of which were females in milk. We returned to Victoria on 31st of August, 1889.

Experience.

Ariel, 1889.

Two-thirds pregnant cows.

Pass, and cap-

Mostly milking females.

On January 10, 1890, I sailed from Victoria as a boat-steerer, in the schooner *Sea Lion*, Magason, master, and proceeded to San Francisco, where we fitted out for sealing; from there a month later we went sealing. Our vessel carried a white crew, five boats, each boat manned by three men. We captured about 300 seals from San Francisco to Cape Flattery, by the use of shotguns and rifles. We returned to Victoria about April 1.

Sea Lion, 1890.

I went out sealing again the same year on the *E. B. Marvin*, McKiel, master. I shipped as a boat steerer. We had a white crew and seven boats, and used shotguns and rifles

E. B. Marvin, 1890.

Mostly pregnant cows. while hunting the seals. We captured between 900 and 1,000 on the coast, most all of which were females with pups. We entered the sea on July 12, through Unamak Pass, and captured about 800 seals in those waters, about 90 per cent of which were females in milk.

A good hunter will often lose one-third of the seals he kills. A poor hunter will lose two-thirds of those he shoots. On an average, hunters will lose two seals out of three of those they shoot. We captured females in milk from 20 to 100 miles from the rookeries. Seals do not haul out upon the land along the coast, nor do they give birth to their young on the kelp. We seek to shoot the seals while they are asleep on the water, because a seal shot while breeching is more likely to be lost. Seals ought not to be killed in the water during the months of April, May, June, July, and August.

ARTHUR GRIFFIN.

Subscribed and sworn to before me on this 22d day of April, A. D. 1892.

[L. S.]

LEVI W. MYERS,
United States Consul.

Deposition of James Harrison, sealer (boat puller).

PELAGIC SEALING.

DOMINION OF CANADA,

Victoria, British Columbia, ss:

James Harrison, being duly sworn, deposes and says: I reside at Victoria, British Columbia, and am by occupation seafaring man. I have had experience in the seal-hunting business. First went out sealing as boat puller along the Northern Pacific coast about the 26th of June, 1891; sailed from *Triumph*, 1891. Victoria, British Columbia, in the schooner *Triumph*, Whidden, master; we had two boats and one stern boat, three men with each boat; we commenced sealing right off the coast; went as far south as the California coast and then hunted north to the west coast of Vancouver Islands; caught 500 skins during the season; almost all of them were pregnant females; out of a hundred seals taken about 90 per cent would be females with young pups in them; I can't tell a male from a female while in the water at a distance. On an average, I think the hunters will save about one out of three that they kill, but they wound many more that escape and die afterwards. We entered the Bering Sea about the 1st of June, and caught about 200 seals in those waters. They were mostly mothers that had given birth to their young and were around the fishing banks feeding. The hunters used shotguns and rifles. In the Bering Sea we killed both male and female, but I do not know the proportion of one to the other. I returned and was discharged at Victoria, British Columbia, about the last of August.

I sailed again about February 12, 1892, in the same vessel, and the same master; we carried two boats, and three men to each boat; all white men in the boats, but we had sixteen Indian canoes with two Indians in each canoe, and the Indians used shotguns, but did not capture any seals, and returned to Victoria, British Columbia, the 1st of April, and I was discharged at the custom-house at Victoria, British Columbia.

Triumph, 1892.

Seals were not as plentiful along the coast this year as they were in 1891. I think that for the proper preservation of the seals all pelagic hunting should be prohibited until the mother seals have given birth to their young.

Decrease.

Prohibition necessary.

JAMES HARRISON.

Subscribed and sworn to before me this 22d day of April, A. D. 1892.

[SEAL.]

LEVI W. MYERS,

United States Consul.

Deposition of James Hayward, sealer (boat steerer).

PELAGIC SEALING.

PROVINCE OF BRITISH COLUMBIA,

City of Victoria, ss:

James Hayward, being duly sworn, deposes and says: My age is 32 years; I reside at Victoria, British Columbia; occupation, seaman. I went on a sealing voyage in 1887 as boat steerer on the American schooner *Vanderbilt*, Capt. Myers, master. She carried six boats, and white hunters, who used shotguns and rifles. I joined her here with five others about the middle of May and sealed along the coast to Bering Sea, and entered those waters in the fore part of July and was ordered out of the sea by a revenue cutter, but kept on sealing until September, and then returned to Victoria, British Columbia. Our catch that year was 2,000, or thereabouts.

Experience.

Vanderbilt, 1887.

Ordered out of Bering Sea.

In 1888 I went in the American schooner *Chas D. Wilson*, Turner, master, as boat steerer, hunting otter and seals. She carried four boats, with white hunters, and they used shotguns and rifles. Left Victoria the 13th of May and went towards the mouth of the Columbia River and hunted along the coast to Shumagin Islands. We caught over 100 otters and a number of seals. We did not go into the Bering Sea that year. In 1889 I did not go out hunting. In 1890 I went in an American schooner (I can not give her name) as boat steerer. She carried five boats and had white hunters, who used both shotguns and rifles. Sailed from Victoria the latter part of April, and went over on the Russian side of Bering Sea and sealed in those waters and caught almost 1,800 seals that season, a part of which we caught along the coast before we went into Bering Sea.

Chas. D. Wilson, 1888.

In 1891 I went as boat steerer in the American schooner *City of San Diego*, George Weston, master. She carried five boats, and white hunters, who used shotguns and rifles. We left Victoria in April and went to the mouth of the Columbia River, but fished only one day and caught only one seal.

City of San Diego, 1891.

We then went directly north of Sitka and commenced sealing off that coast, and were warned not to go into the American part of Bering Sea, and then went over to the Russian side, near the Copper Island. I was under monthly pay, and did not keep track of the number of seals killed and captured.

Most of the seals killed on the coast are pregnant females, while those we killed in the Bering Sea after the 1st of July were females that had given birth to their young on the seal islands and come out into the sea to feed. Have caught them 150 miles off from the shore of the seal islands, and have skinned them when their breasts were full of milk. Seals travel very fast and go a long way to feed. I do not think we got over one-half that we killed and wounded. Have seen six out of seven killed sink and were lost before we could get to them. This happened last year in a boat I was in. I think the seals are not near as plenty as a few years ago, and they are much more shy and harder to catch now than they were when I first went out sealing. I think this is caused by hunting them so much with guns.

JAMES HAYWARD.

Subscribed and sworn to before me on this 23d day of April, A. D. 1892.

[SEAL.]

LEVI W. MYERS,
United States Consul.

Deposition of Victor Jacobson, sealer (master).

PELAGIC SEALING.

Victor Jacobson, being duly sworn, deposes and says: I am 31 years of age, by occupation a seal-hunter. I reside at Victoria, British Columbia. I am a British subject. Have been engaged in sealing for eleven years, ten years as master. Am now master and owner of schooner *Mary Ellen* and owner of schooner *Minnie*. I have sealed from Columbia River along the coast, north and west, to the Aleutian Islands, passages, and in Bering Sea. The female seals go through the passes from the Pacific Ocean into Bering Sea between June 25th and July 15th. Females killed previous to this time I found with pups, but none with pups after that latter date. I have killed female seals with milk 200 miles from the Pribilof Islands. I think of the seals taken by me that three in five are females, and nearly all with pup. Seals are diminishing along the coast, and unless pelagic sealing is stopped in the Pacific Ocean the seal will become exterminated. In order to prevent the entire extermination of the fur-seal, I think all pelagic sealing in the Pacific Ocean on the coast of the United States, British Columbia, and Alaska, should be stopped; also in Bering Sea until the females have brought forth their young, about the 15th of July, after which all vessels should be allowed to enter Bering Sea and take seals without restraint any place

Experience.
Mary Ellen and Minnie.
Time of entrance of females into Bering Sea.
Killed nursing cows 200 miles from Islands.
Percentage of females taken.
Decrease.
Prohibition in Pacific and close season in Bering Sea necessary.

outside of the legal jurisdiction of the United States. I have never known fur-seal to haul out upon any part of the coast of the United States, British Columbia, or Alaska, except the Pribilof Islands. All parts of the coast have been visited by the seal-hunters, and if seal hauled out any place it would have been known by the hunters. I have never known the fur-seal to give birth to their young in the water.

Haul up only on the islands.

Not born in water.

VICTOR JACKOBSON.

Subscribed and sworn to before me this 13th day of June, 1892.

[SEAL]

C. L. HOOPER,

Notary Public, District of Alaska.

Deposition of James Jamieson, sealer (boat-puller and mate).

PELAGIC SEALING.

PROVINCE OF BRITISH COLUMBIA,

City of Victoria, ss :

James Jamieson, being first duly sworn, deposes and says: I am 23 years old, and am by occupation a seaman; I reside at Victoria, British Columbia. In March, 1887, I joined the British sealing schooner *Mary Taylor*, McKiel, master, at Victoria, British Columbia. We went on a cruise for seal; I was a boat-puller. She carried five sealing boats, manned with three white men each. There were three Indians with us part of the season. We used breech-loading shotguns and Winchester rifles. We began to seal when about 20 miles off Cape Flattery. We worked toward the northwest and captured between 60 and 100 seals on the coast, about two-thirds of which were females, with pup; the balance were yearlings consisting of male and female; after which we ran into Barclay Sound for supplies, from which place we worked to the northward toward the Bering Sea. We captured about 80 seals while en route to the sea; about two-thirds of these were females, with pup, the balance being yearlings about one-half male and one-half female.

Experience.

Mary Taylor, 1887.

About two-thirds pregnant females.

In the latter part of January we entered the Bering Sea through the Unamak Pass, and commenced sealing there. We captured about 800 seals at a distance from the rookeries on the Pribilof Islands of from 20 miles to 200 miles; about three-fourths of the catch in the sea was female seals in milk, the balance consisting of yearlings and male seals. We returned to Victoria, British Columbia, some time in August.

In Bering Sea.

Three-fourths of catch in Bering Sea milking females, 20 to 200 miles from rookeries.

In January, 1888, I joined the *Mountain Chief*, Jacobson, master, at Victoria, British Columbia. I was mate on this vessel. She carried ten canoes, each manned by two Indians, who used spears while hunting the seal. We began sealing along the coast, and captured about 85 seals, after which we sailed into Barclay Sound, when I left the *Mountain Chief* and joined the German schooner *Adele* as a cook. Hanson was captain of the *Adele*. We proceeded up the coast and took on sixteen Indian sealers and eight canoes. We then sealed

Mountain Chief, 1888.

Adele, 1888.

along the coast toward the sea, capturing about 100 seals en route. In the latter part of June, we entered the Bering Sea, and proceeded to take seals in those waters. Captured about 700 in the sea. We arrived back to Victoria on the 22d of September.

In Bering Sea.

In January, 1889, I shipped as a boat-steerer on the British sealing schooner *Theresa*, Lawrence, master. She carried six boats, including the stern boat. Our crew and hunters were white men, and were equipped with Winchester rifles and breech-loading shotguns, with which to capture seals. We began sealing off the Columbia River, and then worked up along the coast capturing about 380 seals before entering Victoria, British Columbia, in April.

Theresa, 1889.

In January, 1890, I shipped as a boat-steerer on the sealing schooner *Mollie Adams*, McKeil master. She carried six boats and a white crew, who used shotguns and rifles. We sailed as far south as Cape Mendocino, when we met the herd and proceeded to take them, up along the coast, capturing about 400 seals, and then returned to Victoria, British Columbia, where we fitted out for the west coast and the Bering Sea. About the last of April I again sailed on a cruise for seals on the same vessel, having the same crew. Sealed up along the coast to Northeast harbor, capturing 600 skins, which we transferred to the American steamer *Mischief* and shipped to Victoria, British Columbia. We then sailed through the Unamak Pass into the Bering Sea, when we at once began taking seals. Captured 1,000 seals in that sea, and after remaining in those waters for about two months we set sail for Victoria, British Columbia, on the 1st day of September, and arrived at Victoria on the 21st of the same month.

Transferred cargo to the *Mischief*.

In Bering Sea.

In January, 1891, I shipped as a seaman on the British sealing schooner *Mascot*, Lawrence, master, for a cruise for seals on the west coast. Our vessel carried one stern boat manned by white men, and eight canoes, with two Indians to each canoe. We began sealing off Barclay Sound and caught three skins only, all of which were females with pup. We then ran into Clayquot Sound, when I left the *Mascot* and joined the British schooner *Venture*, Smith, master. I shipped as a seaman and hunter on the British schooner *Venture*. She carried an Indian crew and six canoes. The Indians used spears, and breech-loading shotguns while hunting the seals. After securing our Indian hunters we went to the Bering Sea, and proceeded along the coast. We captured 56 skins. We entered the sea through the Unamak Pass in the latter part of June, and commenced to catch seals. We captured 610 skins while in the sea. In the latter part of July we were ordered out of the sea by the U. S. S. *Thetis*. We returned to Victoria. In February, 1892, I joined the British sealing schooner *Minnie*, Tyson, master, at Dodge's Cove, in Barclay Sound. I shipped as cook. The *Minnie* was equipped with three sealing boats, all manned with white men. We caught five seals along the coast. We then returned to Victoria, B. C., about the 20th of April.

Venture, 1891.

In Bering Sea.

Ordered out of Bering Sea.

Minnie, Tyson, 1892.

In hunting along the coast, I think about 80 per cent of those we caught were females, and most of them were carrying their young. We seldom caught any old bulls, but caught a few of the younger males. I have seen the unborn young cut out of the mother seal and live for a week without food. We used to skin some but threw most of them overboard.

Eighty per cent mostly pregnant.

Nearly our whole catch in the Bering Sea, after the first of July, each year were females, and nearly all of them in milk, and had evidently given birth to their young but a short time before. The milk would run out on the deck as we skinned them. The Indian hunters with spears would not wound or lose but very few seals that they struck, but the ordinary white hunter will, on an average, lose over half that he kills and wounds. We try to take the seals when asleep on the waters, but the hunters are usually paid a certain sum for each seal taken and they try to kill everything without reference to age, sex, or condition.

Catch in Bering Sea mostly milking cows. Success of Indians with spear.

White hunter loses one-half.

Indiscriminate killing.

I do not think that they haul up on the land on the coast and I have never known of anyone taking a young seal on the coast that was born that year, nor do we catch any cow seals on the coast that have given birth to their young that year.

Do not haul up on coast.

JAMES JAMIESON.

Subscribed and sworn to before me on this 23d day of April, A. D. 1892.

[SEAL.]

LEVI W. MYERS,
United States Consul.

Deposition of J. Johnson, sealer (sailing master).

PELAGIC SEALING.

J. Johnson, being duly sworn, deposes and says: I reside on Douglas Island, Alaska. I have spent six years of my life sealing. I have been sailing-master of the schooner *San Diego*, the *Penelope* of Victoria, the *Ada* under the German flag, the *Roscoe* of San Francisco. Have been either master, mate, or hunter on all these vessels. Have first struck the seal off the California coast below San Francisco in January, and followed the seal to Bering Sea, which we entered about July 16th. Have always used a shotgun for taking seal. About 40 per cent shot with shotgun are lost. When the rifle is used, a larger per cent is lost. A large majority of the seal taken on the coast are cows with pup. A few young males are taken, the ages ranging from 1 to 5 years. Once in a while an old bull is taken in the North Pacific Ocean. I use no discrimination in killing seal, but kill everything that comes near the boat in shape of a seal. Always shoot seal in the back of the head if possible. Sometimes seal are shot in the shoulders and wound them; then they can not get away. I never have seen a pup born in the water, nor have I ever seen one born on shore outside of the Pribilof Islands. Never knew any seal to haul up on the land on the coast elsewhere than on the Pribilof Islands. The majority of seals killed in Bering Sea are females. I have killed female seals 75 miles from the islands that were full of milk. If hunting

Experience.

San Diego.
Penelope.
Ada.
Roscoe.

Migration.

Majority pregnant females.

Indiscriminate killing.

No pelagic birth.

Nursing females killed.

Protection.
nated.

is not stopped on the islands in Bering Sea and the North Pacific Ocean the seal must become exterminated.

J. JOHNSON.

Subscribed and sworn to before me this 14th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Francis Robert King-Hall, journalist.

PELAGIC SEALING.

DISTRICT OF COLUMBIA,

City of Washington, ss:

Francis Robert King-Hall, being duly sworn, deposes and says: I am a subject of Her Britannic Majesty, late of the Eleventh Hussars, a son of Sir William King-Hall, K. C. B., admiral in the British navy. I am 35 years of age, a journalist by profession, residing in New York City. In 1891, as a correspondent of the New York Herald, I was detailed to investigate into the methods of pelagic sealing. I proceeded to Victoria, arriving about the 25th of June, and procured passage on board the sealing schooner *Otto*, 85 tons burden, Lunenburg, Nova Scotia. Her managing owner was Walter Borns, of Victoria, British Columbia, and her captain was John Riley, a British subject, who had had several years experience in pelagic sealing, having entered Bering Sea as long ago as 1883, as mate of the schooner *Favorite*.

Otto, 1891.

On July 2nd we left Victoria, the crew consisting of the captain, mate, 4 hands before the mast, a cook, and a Patagonian boy, it being the intention of the captain to pick up Indian hunters on our way out. The *Otto* had no difficulty in getting her clearance papers for hunting in Bering Sea, although the Queen's order in council had been promulgated, and Lieut. Hadley, of H. M. S. *Pheasant*, informed me, when I met him in Bering Sea, that he had, by orders of Commander Turner, requested Collector Milne, of the port of Victoria, to warn the *Otto* and not to give her clearance papers for hunting in Bering Sea.

We had much difficulty in getting Indian hunters, putting in at several villages along the Vancouver coast. Most of the hunters were absent, having been employed previous to our arrival. At the village of Hesquiat I met Father Brabant, a Belgian priest, who had lived for twenty-seven years among the Indians of the west coast. Through him I obtained the Indian view of the present condition of the Alaskan seal herd. I found of the spear very few seals were lost, and that the Indians of Vancouver had at one time a law among themselves prohibiting the use of guns in taking seals. He also told me from his own knowledge that the Uchuck-elset Indians had a few years ago caught off the coast 1,600 seals in a season, and that now they could catch hardly any; that the white men's guns were not only destroying the seals but driving them further from the coast. At every village (and we stopped at over nine on Vancouver Island) I interrogated the Indians to the best of my ability, and they all agreed there were very few seals now compared with the great numbers which were found formerly, and that this decrease began five or six seasons ago. We finally picked

Indian views of pelagic sealing.

that by the use

Use of firearms prohibited by Indians among themselves.

Decrease.

up two Indian hunters and two canoes, besides which we had a sealing boat and two other ordinary boats. On Thursday, July 30th, we left Vancouver Island, making toward Bering Sea by way of the Fair-weather Ground and Portlock Bank, which are the late spring sealing grounds. The first seal sighted was August 4th, longitude $136^{\circ} 32'$ west, latitude $52^{\circ} 46'$ north.

During the days following August 4th, the canoes were lowered, but their search for seals was fruitless. On August 14th, before entering Bering Sea, a seal was speared by the Indians off Marmont Island, which was bearing NW. $\frac{1}{4}$ W. 35 miles. We entered the sea at 6:30 p. m. on the 22d day of July [August] and at 9 o'clock the following morning we got our first seal in the Bering. It was shot by one of the white men in a boat. We were at this time about 25 miles west by north of Northwest Cape on Unimak Pass. On the same day 4 other seals were shot, and 3 not recovered. Two sank, and the other escaped badly wounded. The following day the captain shot 2, losing 1, and the other boat brought 1 seal on board. On the 25th of August we were 125 miles southeast of St. George Island. The Indian hunters were out all day, and brought in 3 seals, the white hunters getting none. The captain informed me that day that the previous year he had taken in this locality 148 seals in one day, and that one of his hunters got 38 and lost 40, which he shot. The next day the two boats and canoes were out, and the captain brought back 1, but had shot and lost 6 others, 1 of which sank. The other boat reported that they shot 7, but all sank before they could get them, the water being so colored with blood that it was impossible to see the bodies sufficiently to recover them with the gaff. The two Indians brought back 10 seals, all speared. Out of the number taken on board 4 were full of milk. On the 27th the Indians brought in 2 seals, and the captain 1, which were all they had seen. On the 29th 17 seals were taken; the captain got 3, having lost 4, killed or wounded. The other boat brought in 3, having lost 2, and the cook shot 1 from the schooner's deck. Out of these, 7 were females, which covered the decks with milk while they were being skinned.

On August 30th, the two boats got 3 seals, and both reported having hit and lost several others, but they were unable to tell how many. The following day we spoke the British schooner *Oscar* and *Hattie*, and her skipper, Capt. Galt, boarded us and remained to dinner. In a conversation I had with him he states that his season's catch was 1,510 skins. That on the proclamation forbidding the taking of seals in Bering Sea becoming known, the schooners which had escaped being warned by the U. S. S. *Thetis* at Alitak Bay at once made for the Pribilof Islands, to catch all they could before receiving the official warning. This statement accounts for so many vessels having been warned near the islands which previous to the *modus vivendi* being declared they had refrained from approaching, because they feared being seized. The same day, after a chase of an hour, we were seized by the U. S. S. *Mohican*. The total catch of seals at the time of seizure was 48, and at least 20 were females, the majority of which were in milk. All the seals were taken from 120 to 180 miles from St. George Island. I am convinced that at the very least white hunters lose 50 per cent of the seals they hit, and probably the majority of those wounded will ultimately die. All killing of seals in the water must of necessity be indiscriminate

Entered sea July 22, 1891.

Catch in the sea.

Oscar and Hattie, 1891.

Season's catch.

Seiz'd.

Waste of life.

slaughter, as it is impossible to tell the sex or the exact age of a seal until it has been taken into the boat, whereas on land careful discrimination can be made.

Granting that open-sea seal hunting is to be allowed, the use of the gun should be absolutely prohibited, and a close time established which should extend from the beginning of the year until all gestation is finished. Further to protect the nursing female seals, it will be necessary to prohibit sealing within a zone extending at the very least 100 miles from the rookeries, in order that the females may be unmolested while feeding, and even under such restrictions there is no doubt many pups would die of starvation through the death of their mothers, which would be killed outside the protected zone. This method of protection I suggested to several owners and captains of the sealing vessels at Victoria, who all approved of the plan, naturally, to a certain extent, from selfish reasons. In my own opinion, however, the most perfect method of protecting the Alaska seal is to kill only the young bachelors, and as this discrimination can be made on shore alone, it naturally restricts all killing to the Pribilof Islands.

FRANCIS R. KING-HALL.

Subscribed and sworn to before me, a notary public in and for the District of Columbia, this 25th day of July, 1892.

[SEAL]

SEVELLON A. BROWN.

The above statement is made by me on oath without regard to any international question, as I regard both the Canadian and American pelagic sealers equally destructive of the seals.

FRANCIS R. KING-HALL.

JULY 25TH, 1892.

Deposition of Andrew Laing, trader and sealer (mate).

PELAGIC SEALING.

PROVINCE OF BRITISH COLUMBIA,

City of Victoria, ss:

Andrew Laing, being duly sworn, deposes and says: I am 42 years of age; residence, Victoria, British Columbia; occupation, trader. I went out as trader on the *W. P. Sayward*, of which I was part owner, in the years of 1882, 1883, 1884, 1885, 1886, 1887, 1889, and 1890. In 1888 I went as mate on the *Favorite*, my boat having been seized the year before by the revenue cutter *Rush*, but was finally released, so that I went in her again in 1889 and 1890. My vessel carried Indian hunters in all her trips previous to this year (1892) and they used canoes and spears in hunting seals exclusively. Prior to 1886 I nor my vessel had ever been in the Bering Sea hunting, but had cruised along the coast each year from the Columbia River to Kodiak Island, and then returned to Victoria and had caught seals in greater or less numbers each year; but in 1886 and each year thereafter, excepting 1891, I have not only sealed on the coast but have also been in the Bering Sea hunting seals.

My vessel went to the Bering Sea in 1891, but I did not go with

Protection.

Experience.

W. P. Sayward, 1882-1890, except 1888.

Favorite, 1888.

Crews and weapons.

her. The year I was on the *Favorite* she carried Indian hunters also, who used spears. It is now the practice to hunt along the coast early in the season from the Columbia River to the Bering Sea, and enter those waters the fore part of July. Indian hunters will not stay out over ten days at a time when we are on the coast, so we have to come in and out quite often. This year I have changed my crew to white hunters, who use shotguns and rifles. When in Bering Sea we are usually from 50 to 150 miles from the Pribilof Islands. I did not pay any particular attention to the sex of the seals we caught on the coast or in the sea any further than we got a number of the yearlings and 2-year-olds on the coast, and that I have seen young live pups cut out of their dead mothers and they would walk around on deck and bleat for three or four days, and then die of starvation. In the Bering Sea I have noticed that in skinning seals milk would run out of the teats of females who had given birth recently to their young on the islands. I have caught this class of females from 75 to 100 miles from the Pribilof Islands.

The *W. P. Sayward*
in Bering Sea in 1891.

Time of entering
Bering Sea.

Hunt in Bering Sea
from 50 to 150 miles
from the islands.

Have caught nursing
cows 75 to 100
miles from islands.

I know of no place along the eastern coast where fur-seals haul out on land, and I do not believe there is any outside of the Pribilof Islands. Fur-seals do not give birth to their young in the water, neither will the pup seal live if born in the water. I can not say as to seals appearing off the coast in less numbers each year, but I think some arrangement should be made for their protection by a closed season during the time they are carrying and nursing their young.

Haul up only on
the islands.

Not born in water.

Protection by a
close season necessary.

ANDREW LAING.

Subscribed and sworn to before me on this 23d day of April, A. D. 1892.

[L. S.]

LEVI W. MYERS,
United States Consul.

Deposition of Robert H. McManus, newspaper correspondent.

PELAGIC SEALING.

The undersigned, Robert H. McManus, of the city of Victoria, Province of British Columbia, Dominion of Canada, being duly sworn, saith: I am about 49 years of age, and have for some years past followed the calling of newspaper correspondent and writer. In 1889, at the time the British sealing schooners were seized in the Bering Sea by the United States revenue cutters, I devoted some attention to the sealing industry. Being acquainted with Mr. Walter Borns, through his being a boarder in my family, and who is largely identified with the sealing industry, I was by him earnestly solicited to accompany him on a sealing cruise on board his schooner *Otto* last season. Some time previously I had a severe attack of rheumatic gout, and was at the time of solicitation by Mr. Borns partially convalescent. I was advised that the voyage would tend towards the recovery of my health and the inducement of an opportunity

Experience.

to gain by personal observation all that could be learned of the seal hunting question, which I would be enabled to turn to pecuniary account as a newspaper correspondent, determined my acceptance of the proposal, although the pecuniary offer of Mr. Borns was merely trivial. I was very weak and feeble, and had to be assisted on board the vessel. Mr. F. King-Hall, correspondent of the New York Herald, was, with my consent, taken on board as a passenger.

The *Otto* cleared from the Victoria custom-house on the 23d June, 1891, but owing to the difficulty experienced in obtaining a crew of Indian hunters, did not sail from the harbor till the 2d July, and then without any Indians; and set sail finally for the west coast, Vancouver Island, on the 5th July. At the last moment the owner, Mr. Borns, was prevented by some business engagement from accompanying the vessel, and before leaving requested me to "keep my eye opened" about his interests.

We set sail for the Bering Sea from the northwest coast of Vancouver Island on Thursday, the 30th July last. When off the coast of Queen Charlotte Islands, some seals were observed, which the captain informed me were fur-seals; the one seen by me belonged to the hair-seal species, as I knew by the bronze color as it floated past the vessel. It is said that the fur-seals have some undiscovered breeding grounds in the vicinity of the Prince of Wales Islands group; again, that the fur-seals bring forth and rear their young on the large floating beds of kelp found in those waters; another theory is that the seals migrate in the spring from the coast of California to the Bering Sea in herds, each herd, like the bees, having a recognized leader; should this leader happen to fall a victim to the hunter, the herd becomes disorganized and disperses over the waters of the North Pacific Ocean. However, be the theory correct or otherwise, the presence of fur-seals outside of Bering Sea at that time of year was rather remarkable, *i. e.*, if the seal observed by the crew were of the fur-seal species.

Twenty-five miles off Kadiak Island, Gulf of Alaska, when going on deck after breakfast, on the morning of the 14th August, I observed some dark object in front of the schooner, and called the attention of the captain to it, who said it was a log or a piece of kelp. I maintained it was a seal, and so it proved. The Indian hunter went out in his canoe in pursuit and killed the seal with his spear, in sight of the vessel. It was a medium or half-grown seal.

On the evening of Saturday, the 22d August, we entered the Unimak Pass; weather, mist and rain, and on Sunday morning, the 23d, were in the proscribed waters.

The hunting outfit of the *Otto* was rather limited: One seal-hunting boat, which I will designate the first boat; one pleasure boat, heavy and clumsy, the second boat; and one Indian hunter and one canoe man in a canoe. The first boat was manned by the skipper as hunter, an acknowledged expert of twelve years' experience, armed with a No. 12-bore double-barreled shotgun by Greener, of Birmingham, and one Winchester repeating rifle, and a crew of two white men as pullers and steerers. The second boat was manned by two Swedish seamen, one as hunter and the other as puller, of no experience whatever in the business, armed with a No. 10 bore double-barreled shotgun. The canoe, one Indian hunter, and one canoe man, armed with the Vancouver Island west coast spear and a single-barrel muzzle-loader shotgun, this latter, I was informed, merely to give the quietus to the harpooned seal should occasion require. The

Otto, 1891.

Bering Sea, time of entering.

Equipment, boats and weapons.

ammunition used: Curtis & Harvey's No. 6 grain, size 14, in kegs; charge, 6 to 7 drams, and from 15 to 21 buckshot.

The following is an extract from my note book during the nine days' hunt in Bering Sea, from 23 to 31 August, in the waters about 40 to 50 miles from the entrance to Unalaska harbor, and 40 to 50 miles off Akutan Island, Aleutian chain, or from 150 to 200 miles from the Pribilof Islands.

Diary of nine days' hunt in Bering Sea; extract from.

Sunday, 23 August, wind light; misty; rain. 7:30 a. m., sighted seals to west. Second boat lowered; killed one seal in sight of vessel. First boat and canoe lowered; out all day, returning to meals. Result of day's hunt: Second boat, one seal. Seals sporting round vessel; a great many shots fired by boats.

Monday, 24 August, clear weather; calmer sea. Boats and canoe out all day from 7 a. m. (returning to dinner). Result: First boat, one seal; reported having lost two. Second boat, none. Indian canoe, one seal. Total, 2 mediums; a great deal of firing heard.

Tuesday, 25 August, rain in morning. Boats and canoe out at half past 9 o'clock; out all day (returning to dinner). Result: First boat, two seals reported, wounded and lost five; seals said to be shy and wary, and not so numerous as formerly; attention called to cow seal being skinned (which I had taken for a young bull). The snow white milk running down blood-stained deck was a sickening sight. Indian canoe, one seal. Total, 3 seals; 2 mediums and 1 cow.

Wednesday, 26 August, cloudy morning; seals floating round schooner. Boats and canoe out all day. Result: First boat, 1 seal; second boat, none; Indian canoe, 10 seals; total, 11 seals; 8 cows in milk, and 3 medium. Skipper in first boat blamed the powder. Second boat said it was too heavy and clumsy for the work. Skipper reported having wounded and lost 7, and the men in second boat 9 ditto, 16 in all. Skipper said seals not so numerous as formerly, more shy; also blamed the powder. Evidently a great deal of shooting and very few seals to correspond.

Thursday, 27 August, seals to all appearances very scarce, species being exterminated, so to judge from the skipper's remarks. Weather fine and clear. Boats and canoe out; returned at noon, consequence of rough sea. Result: First boat, 1; second boat, none; Indian canoe, 2 seals; total, 3 seals. Again in favor of Indian spear. Powder blamed again. Tired of such excuses. So far have not found one word of truth in anything I've heard previously about open sea seal-hunting.

Friday, 28 August, rain and heavy sea in morning; cleared in afternoon; boats and canoe out in afternoon; returned at 6 p. m. No skins, although a great deal of shooting going on. First boat reported having wounded and lost three seals; blamed powder. Poor powder. It takes, judging from the number of shots fired, about a hundred to secure one seal.

Saturday, 29 August, ship's cook brought down from deck a large cow seal at 40 yards rise. Boats and canoe out all day; fine, clear, balmy weather; Akutan Island in sight. Result: First boat, three seals; second boat, three seals; cook, from deck, one; Indian canoe, ten; total catch, seventeen seals, greater proportion cows in milk; horrid sight, could not stay the ordeal out till all were flayed. A large number reported as wounded and lost. According to appearances, slaughter indiscriminate.

Sunday, 30 August, fine clear morning; hazy towards Akutan. At 6 o'clock a cry "Here's the cruiser" to the eastward. Boats and canoe

off at 7 o'clock; at 8 o'clock I could see deck of the steamer bearing down on us about 8 miles off. Boats recalled. The Indians returned about 9 o'clock, greatly excited; went out again when the steamer sheered off towards Unalaska harbor. Result of hunt: First boat, two seals; second boat, one; Indian canoe, seven; total, ten seals, seven of which were cows in milk. Several, as usual, reported wounded and lost by the boats. The great superiority of the Indian spear evident.

Monday, 31 August, captured by the U. S. S. *Mohican* 3:30 p. m.; no hunting.

The total catch on being analyzed shows a favorable comparison between the experienced and inexperienced hunters; when the class of boats and arms are taken into consideration, and the extraordinary numbers reported as wounded and lost, dispels any faith in the oft reported assertion that *only one in ten* escape from "the unerring rifle in the hands of the experienced hunter."

The number, two-thirds of the catch, captured by the Indians, gives the verdict entirely in favor of the primitive weapon of the aborigines as against the modern breechloader. The spear used by the Vancouver Island Indians for

seal hunting is 10 feet long in the shaft, tapering off toward the ends, and thus well balanced. At the point the shaft forks off into two prongs, on which the spear-head or harpoons fit easily, being attached to the shaft by a cod line, which runs up to the butt, where it is caught in a bight and held round the thumb of the right hand. On being projected the shaft separates from the harpoons and floats on the water unheeded till the seal is secured. But few are missed. Any that escape wounded only suffer from a flesh wound of $2\frac{1}{2}$ inches in depth. Once the harpoon pierces the skin beyond the barbs the only possibility of escape lies in the chance of the line breaking. This system of capture is both economical from a business standpoint, as well as that of being almost, if not entirely, less destructive to seal life, as compared with modern arms of precision. It may safely be asserted that over three-fourths of the catch of forty-eight were cows in milk. This, at a distance of 200 miles from the rookeries, shows that the nursing cows ramble all over the Bering Sea in search of their chief food, the codfish, which are to be found on the banks along the coast of the Aleutian Islands. During the migratory journey north in the spring the cows with young become the easiest victims to the hunter, owing to being more fatigued, and consequently sleep more than other class of seals. From all information I could glean from the skipper, when I pointed out the circumstance of cows in milk being killed so far from the islands, leads me to understand that had the cruise of the *Otto* been a month or six weeks earlier, the proportion of nursing cows in a catch would be still greater than that herein exhibited.

Waste of life.

Superiority of Indian spear.

Description of spear.

Seventy-five per cent of catch nursing cows.

Females feeding.

ROBERT H. McMANUS.

Subscribed and sworn to before me this 29th day of March, 1892.

JOSEPH MURRAY,
Treasury Agent.

Deposition of Thorwal Mathasan, sealer (boat-puller).

PELAGIC SEALING.

DOMINION OF CANADA,

Victoria, British Columbia, ss:

Thorwal Mathasan, being duly sworn, deposes and says: My name is Thorwal Mathasan; my age is 39 years; occupation, seaman; I reside at Victoria, British Columbia. I went sealing in 1891 in the *Oscar and Hattie*, Gault, master, as a boat-puller, from Victoria, British Columbia; sealed up to the last of January; we had six boats and one stern boat, with three men to each boat and two men with the stern boat; we used shotguns and rifles, and sealed along the west coast to the Bering Sea. We caught over 1,000 seals off the coast, most all females, and a great number of them had young pups in them. We generally tried to kill them while asleep in the water, but fired at everything that come around us. A good many would sink when we shot them and would go down like a stone and were lost, and nearly all the wounded ones would get away. Those that we would kill we would try to get up to them before they would sink and get them with the gaff hook, but we could not get many that way. We carried two gaff hooks to each boat. It takes anywhere from one to twenty shots on the average to secure a seal, and, I think, we got about three out of five that we killed, but we may not have got as many, for poor hunters wouldn't get more than one out of five.

Experience.

Oscar and Hattie, 1891.

Catch on coast mostly females, a great part being pregnant.

Waste of life.

Entered Bering Sea in July and was chased out by the cutters. Did not catch any seals in the American waters in the Bering Sea, but went over across on the Russian side and sealed there. The whole catch for that year was about 1,500 seals. Those that we killed on the Russian side was about in the same proportion as to females as those killed on this side. I know of no place on the coast where the seals haul up on the land. I think the seals are not so plentiful on the coast as last year.

Bering Sea; time of entering.

Driven out.

Seals do not haul upon coast. Decrease.

I went sealing again on the 28th of January, 1892, in the same vessel, Captain Gault. Went down to the Yaquina Bay. On the 17th of February one of our small boats capsized and we lost the captain, three hunters, and one sailor. We went into the Yaquina and got a new captain and went down to Clayquot and completed our crew and went out sealing again, off the coast, and returned to Clayquot the forepart of April; then I left the vessel. Our whole catch was 33 seals during the voyage the three months we were out. Seals did not seem to be near as plentiful as last year.

Oscar and Hattie, 1892.

Catch.

Decrease.

TH. MATHASAN.

Subscribed and sworn to before me on this 22d day of April, A. D. 1892.

[SEAL.]

LEVI W. MYERS,
United States Consul.

Deposition of John Morris, sealer (mate and master).

PELAGIC SEALING.

DOMINION OF CANADA,

Victoria, British Columbia, ss:

John Morris, being duly sworn, deposes and says: My age is 34 years, my occupation seaman, and my residence is Victoria, British Columbia. I have had six years' experience in sealing, both in the North Pacific and the Bering Sea. In February, 1882, I went sealing from Victoria, British Columbia, in the schooner *Onward*, McCoy, master. I shipped as mate. We had sixteen canoes, all manned by Indians—two Indians to each boat. The Indians used spears while hunting seals. We began sealing off Cape Flattery; sailed and sealed to the northward, and captured about 800 seals along the coast. There were not over ten males in the whole lot. The females had pups in them and we cut them out of their mothers and threw them overboard into the ocean. They secured about all of the seals they speared. We returned to Victoria, British Columbia, about the last of June.

About the last of April, 1883, I sailed from Victoria on a sealing voyage in the *Onward*, Morris, master. We had eighteen canoes, all manned by Indians, two to each canoe. They used spears as weapons and captured about 400 seals while I was on her. They were all females with pup excepting the yearlings, which were about one-half male and one-half female. I left the *Onward* at Clayquot Sound and joined the *Alfred Adams* and returned to Victoria, British Columbia, on account of sickness of the owner and master.

About the 1st of January I sailed as master of the *Alfred Adams* on a sealing voyage; we had about eighteen canoes, with two Indians to each canoe; they hunted with spears and captured about 750 skins along the coast. All the seals captured were pregnant females except the yearlings. We returned to Victoria about the last of June, 1884.

In February, 1885, I sailed from Victoria, British Columbia, on the schooner *Seventy-six*, Potts, master. We had three boats and three men to each boat; had a white crew. We began sealing off Cape Flattery and caught about 20 seals, all of which were pregnant females. We used rifles and shot-guns in hunting the seals. We returned to Seattle in the month of June. Prior to this I had never been in the Bering Sea, and with but few exceptions sealing vessels did not visit those waters.

In the month of February, 1887, I sailed from Victoria, British Columbia, in the schooner *Black Diamond*, I, Morris, master. We had twenty-four canoes, each manned by two Indians. The Indians used spears in hunting the seals. They lost very few of the seals they speared. We captured on this trip about 900 seals, but did not enter the Bering Sea. We returned to Victoria, British Columbia, in June. The seals are more shy now than formerly, because they have been hunted so unmercifully with guns. Seals are scarcer now than in former years. With the present increasing fleet of sealing vessels the seal herd will soon become exterminated unless some restrictions are placed upon pelagic sealing.

Experience.

Bering Sea. In February, 1882, I went sealing from Victoria, British Columbia, in the schooner *Onward*, 1882.

Majority taken pregnant females.

Onward, 1883.

Pregnant females taken.

Alfred Adams.

British Columbia, on account of sickness of the owner and master.

Alfred Adams, 1884.

Pregnant females taken.

of June, 1884.

Seventy-six, 1885.

We began sealing off Cape Flattery and caught about 20 seals, all of which were pregnant females. We used rifles and shot-guns in hunting the seals. We returned to Seattle in the month of June. Prior to this I had never been in the Bering Sea, and with but few exceptions sealing vessels did not visit those waters.

In the month of February, 1887, I sailed from Victoria, British Columbia, in the schooner *Black Diamond*, I, Morris, master. We had twenty-four canoes, each manned by two Indians. The Indians used spears in hunting the seals.

They lost very few of the seals they speared. We captured on this trip about 900 seals, but did not enter the Bering Sea. We returned to Victoria, British Columbia, in June. The seals are more shy now than formerly, because they have been hunted so unmercifully with guns. Seals are scarcer now than in former years. With the present increasing fleet of sealing vessels the seal herd will soon become exterminated unless some restrictions are placed upon pelagic sealing.

Decrease.

Protection necessary.

Pelagic sealing in the North Pacific Ocean should not be permitted for at least six weeks after the females have given birth to their young.

Close season suggested.

JOHN MORRIS.

Subscribed and sworn to before me on this 22d day of April, A. D. 1892.

[SEAL.]

LEVI W. MYERS,
United States Consul.

Deposition of Morris Moss, furrier, and vice-president Sealers' Association of Victoria.

PELAGIC SEALING.

PROVINCE OF BRITISH COLUMBIA,
City of Victoria, ss:

Morris Moss, being duly sworn, deposes and says: I have resided in British Columbia thirty years. Since 1880 have made my home in Victoria, British Columbia. My occupation is that of purchasing raw furs. Of late years raw fur-sealskins have been the principal furs handled by me. I have bought from 10,000 to 20,000 per year, and am vice-president of the Sealers' Association of Victoria, British Columbia. The sealing industry, as regards British Columbia, started in about 1872; at that time Indians only were employed to do the killing, which was done by spearing. The fleet was small, not numbering over half a dozen vessels, and the trade was in the hands of three or four men. In 1883 the American schooner *San Diego*, of San Francisco, entered the Bering Sea, and after taking about 2,200 sealskins brought them to Victoria and sold them. This gave impetus to the trade and the following year Victoria schooners entered the sea. New vessels were subsequently added to the fleet and other firms embarked in the business. In 1886 three Victoria vessels were seized, since which time there has been trouble over the Bering Sea sealing industry. Since that time the fleet has been gradually increasing until now. Previous to this time (1886) but few white hunters were employed and the Indian hunters used spears only. By so doing they secured all the seals struck, and did not scare the balance; of late years, however, all the Indians carry and use shotguns in addition to their spears. About fifty-six schooners have cleared from Victoria this spring. Thirty of them carry white hunters and the balance Indians.

Experience.

Sealing industry beginning and development of.

San Diego, 1883.

Seizures in 1886.

Spears supplanted by shotguns.

There are two great herds, or armies, of fur-seals that frequent the North Pacific Ocean and Bering Sea. They are quite distinct from each other and do not intermingle. The one army appears off the coast of California in the latter part of December and gradually work their way northward and are joined by others coming, apparently, from mid ocean. They appear to travel in two columns, the outer column containing an army only of bulls, and the inner one mostly cows and yearlings. These columns are not continuous schools of seals, but rather small parties scattered along. The column traveling along the British Columbia coast head for the Pribilof Islands; their natural breeding ground. The other

Habits.

Migration.

army proceeds along the Japanese coast, and head for the Commander and Robben islands. I believe the seals always return to the place of their birth. Schooners with white hunters commence to seal soon after the new year; they go south to meet them and follow them up along the coast. Schooners employing Indians do not start so soon, it being difficult to induce the Indians to break up their regular feasting and dancing. Schooners generally enter Bering Sea about the first week in July.

When sealing begins.

Entering Bering Sea.

Percentage of yearlings taken.

Prices of pelagic skins.

Majority taken in Bering Sea nursing cows.

Waste of life.

Protection necessary.

Suggests a zone or a close season.

The percentage of yearlings or gray pups taken on the coast is much greater than that taken in the Bering Sea. The percentage on the coast averages from 6 to 12 per cent, while the percentage of those taken in Bering Sea will not exceed 2 or 3 per cent. The seals taken by schooners do not bring in the London market more than one-half realized by the lessees of the Pribilof Islands. The reason for this is the Company's are all young bulls and are killed by being clubbed on the head, while those killed by the schooners are of all kinds and sizes, and are perforated with shot; consequently are not perfect skins. I believe the majority of seals captured by white hunters in Bering Sea are females in search of food. I can not say how many seals are killed and wounded, but there is no doubt that green hunters lose many, while those more experienced in the business lose fewer.

It is generally conceded that the Indian hunters in the use of the spear seldom lose one they kill or wound. I have no doubt in my own mind that unless some restrictive measures are taken, the seals will either be eventually exterminated or become so scarce it will not pay to hunt them. The fleet has increased greatly in the last few years, and will continue to do so as long as there is money in the business.

It is very important that if the fur-seal is to be preserved it must be protected from indiscriminate slaughter in the open sea, or it will soon be exhausted. I would suggest that either schooners should not be allowed to approach within a radius of 50 miles of the breeding grounds, or else they should not be allowed to enter the sea until the female has had proper time to give birth to her young, and to give it nurse until such time as the young seal is able to exist without it, say the 1st day of August. This is the general opinion of prominent owners of schooners who have given an unprejudiced opinion upon that subject.

MORRIS MOSS.

Subscribed and sworn to before me on this 23d day of April, A. D. 1892.

[SEAL.]

LEVI W. MYERS,
United States Consul.

Deposition of Will Parker, sealer (hunter).

PELAGIC SEALING.

DOMINION OF CANADA,
Victoria, British Columbia, ss.

Will Parker, being duly sworn, deposes and says: My age is 40 years, residence and citizen of Victoria, British Columbia; occupation, hunter. I went sealing in 1890 in the Wal-

Experience.

ter Rich, Capt. Cooper, master. Left Victoria in January and went off the coast of Lower California and commenced sealing, working our way up the coast, following the herd towards Bering Sea. I left the vessel at Victoria in April, because she changed her flag from American to British. She carried six boats and a stern boat. The hunters were all half-breeds except myself. We had caught but very few seals, and when I left her we had only about fifty skins. We got a little too far down the California coast and got out of the run of seals, and for twenty-one days saw none whatever.

Walter Rich, 1890.

Change of flag.

Coast catch.

In 1889 I sailed as hunter in the British steamer *Ariel*, Buckner, master. Left Victoria the latter part of January and commenced sealing about 30 miles off the Columbia River and sealed along the coast towards Bering Sea, arriving there about the middle of July. We were all white hunters and used shotguns and rifles and caught about 500 before entering Bering Sea. In the Bering Sea we hunted around the fishing banks and so far off the seal islands that we seldom saw land. We caught a great many seals on what is called Southwest Bank about 100 miles from Unalaska, and I think it is more than 100 miles from the Pribilof Islands. We caught about 1,100 in the Bering Sea, and our whole catch for that season was about 1,700.

Ariel, 1889.

Bering Sea; time of entering.

Coast catch.

Catch in Bering Sea, 100 miles from islands.

In 1888 I sailed as hunter and interpreter in the British schooner *Alfred Adams*, Worth, master. She had Indian hunters and carried ten canoes of 2 men each. They used spears and shotguns. I joined down the coast, at San Juan, in May. Hunted off Cape Flattery for about a month, and when it was stormy we would run to harbor, for Indians do not like to stay out when it blows. We caught about 300 seals off the coast, and landed them at Victoria in June, and then started direct for Bering Sea; ran into a school of seals at Portlock Bank, off coast of Alaska, and caught between 300 and 400. We went through Unamak Pass the 4th of July and sealed in those waters until about the 14th of August, at which time we left the sea and came to Victoria. Caught only about 700 seals while in the sea, for it was a stormy, bad season. We caught most of the seals that were taken by our vessel in Bering Sea from 30 to 60 miles off to the southwest of St. Paul Island.

Alfred Adams, 1888.

Catch off coast and in Bering Sea.

Bering Sea; time of entering.

Most of catch in the sea from 30 to 60 miles from the islands.

In 1887 I sailed from Victoria as hunter and interpreter in the British schooner *Ada*, Gordon, master. She carried seven canoes and one boat, and Indian hunters, who used spears. She left Victoria the latter part of April and made one trip out for three days, when a storm drove us back into harbor. We caught 395 seals in the two days and a half that we were out; caught them about 35 miles west of Cape Flattery. Fitted out and left the coast for Bering Sea the 26th of June and went direct to Unamak Pass. The weather was bad and we did not stop to seal, and only saw a very few seals. We entered Bering Sea the 16th of July and sealed off Akatan Pass until we were seized by a revenue cutter on the 25th of August with 1,897 skins on board, and all caught in Bering Sea.

Ada, 1887.

Coast catch.

Bering Sea; time of entering; vessel and cargo seized.

In 1886 and 1885 I did not go hunting. In 1884 and 1883 I sailed as cook on the British schooner *Thornton*, Nelse, master. She carried Indian hunters and did not go into Bering

Thornton, 1883 and 1884.

Sea, but sealed off the coast. The Indians used spears and sometimes would have an old musket. There was hardly ever a sealing schooner that went to Bering Sea during these years or prior to 1885, and there were only four or five that sailed from here in the sealing business, and these carried Indian crews, who hunted with spears and seldom went far from the coast.

Few vessels entered Bering Sea before 1885.

In 1882 and 1881 I sailed as cook in the British schooner *Onward*, McCoy, master. She carried Indian hunters and sealed along the coast. Did not go into Bering Sea. Seals were almost exclusively taken on the coast during these years and by Indian hunters, armed by spears. I do not know of any sealing schooner that went to the Bering Sea until Captain McLean went there about nine years ago in the *Favorite*. Indians were the principal hunters until about six years ago, and they scarcely ever used anything but spears and would save most all the seals they killed, but since it has become the practice to hunt seals with guns a good many are killed, wounded, and lost. Green hunters bang away and wound more than they kill and will shoot six or seven before they get one, and sometimes more. Good hunters will do much better. I used to get most of the seals I killed, but I have killed five dead in succession and lost the whole of them. A female seal will sink much quicker after she has given birth to her young than before. We are more sure of getting a sleeping seal than one that is breeching.

Onward, 1881 and 1882.

In those days seals taken almost exclusively on coast and with spears.

Favorite.

Waste of life.

Seals sinking.

Seals sinking.

My observation on this coast is, that the young seals are nearest to land and the cow seals have a course some farther out. The bulls are still farther out and much more scattered and shy. The seals lay around off the coast of California and north of there until early in February, when they commence to work slowly along up the coast and enter Bering Sea in June and July. Their habits in this respect are well known to the hunters. The catch along the coast for the last six or seven years, since the rifle and shotgun have come into use, is principally females and the grown ones have pups in them. The catch of young seals is much less in proportion to the number caught than they were when Indians used to take them by spearing. I have cut the young seal out of its dead mother and kept it alive for several weeks by feeding it on milk, but it would eventually die. I have known them to live days without eating anything. I have put pups cut out of dead seals to the breast of dead female seals when milk was running out of their teats, but they would not touch it.

Migration.

Coast catch principally females.

The seals taken in Bering Sea are nearly all grown. We get but very few young seals. I think we catch in Bering Sea more males in proportion to females than we do on the coast. We catch a good many females in Bering Sea that have given birth to their young on the islands and were in milk. I have caught plenty of cow seals in milk a hundred miles or more from the islands, but seldom get any that have a pup in them in those waters. Seals were much less in numbers off the coast in 1890 than they were about 1885. They have either been destroyed or driven off. We had no trouble in making a season on the coast, weather permitting, of from 700 to 1,300, and now 500 is a good catch.

Kind taken in Bering Sea.

that have given

Nursing cows taken 100 miles or more from islands.

Decrease.

Since the use of rifles and shotguns have become common seals are much less in numbers and are more shy and timid. They ought to be prohibited from killing seals in the water for a few years at least, or there will not be enough left to make them worth hunting.

Protection neces-
sary.

WILLIAM PARKER.

Subscribed and sworn to before me on this 22d day of April, A. D. 1892.

[SEAL.]

LEVI W. MYERS,
United States Consul.

Deposition of Charles Peterson, sealer (boat-puller).

PELAGIC SEALING.

PROVINCE OF BRITISH COLUMBIA,

City of Victoria, ss:

Charles Peterson, being duly sworn, deposes and says: I am 36 years old and am by occupation a seafaring man; my residence is Victoria, British Columbia. In April, 1886, I went seal hunting from Victoria in the schooner *Mountain Chief*, Jacobson, master. Our schooner carried ten canoes, each manned by two Indians, who hunted with spears. We began sealing off Cape Flattery and captured about 300 seals along the coast, most all of which were females and yearlings. We did not capture over 50 males, all told, on this voyage, and returned to Victoria in July.

Experience.

Mountain Chief,
1886.

Sealing off coast.

Females taken.

In the spring of 1887 I went on a sealing voyage from Victoria, as a boat-puller, in the schooner *Alfred Adams*, Dyre, master. She carried one stern boat and two Indian canoes. We had a white crew, but the canoes were manned by two Indians each. We began sealing off Cape Flattery and sealed right up towards the Bering Sea, capturing 16 seals along the coast, all of which were females with pup. We entered the Bering Sea about the 15th of August through the Unimak Pass and captured therein 1,404 seals, most of which were cows in milk. On that voyage we caught female seals in milk over 80 miles from the rookeries, where they had left their young. Our best hunters would secure half of the seals shot, but the poorest ones would not get more than one out of twenty, the average being one secured out of five killed.

Alfred Adams, 1887.

Sealing off coast.

Females taken.

Entered Bering Sea.

Pregnant females.

Waste of life.

I have seen the deck almost flooded with milk while we were skinning the seals. It is impossible to distinguish the male seal from the female when they are in the water at a reasonable gunshot distance. About 90 per cent of all the seals we captured in the water were female seals. After remaining in the sea about fifteen days our vessel was seized and we returned to Victoria.

Sex indistinguishable in water.

Ninety per cent females.

Vessel seized.

Minnie, 1890.

In April, 1890, I went sealing in the *Minnie*, Jacobson, master. She carried fourteen canoes, manned with Indians, two Indians with each canoe, who used spears. We caught

Females taken. 350 seals along the coast, all of which were females excepting 20. We returned to Victoria in June.

Minnie, 1891. In January, 1891, I left Victoria on a sealing voyage in the schooner *Minnie*, Dillon, master. We carried two boats manned by white men and ten canoes, each manned by two Indians, who used shotguns. We captured 250 female seals with pup on the coast and then returned to Victoria, after which we sailed again in a short time on the same vessel with the same crew for the North Pacific Ocean and Bering Sea, capturing about 250 female seals while en route to the Bering Sea also a few male yearlings. We entered the sea and secured about 10 seals, all of which were females in milk. After remaining there ten days we started back to Victoria.

Pregnant females taken. The practice of taking seals in the water before they have given birth to their young is destructive to seal life, wasteful, and should be prohibited. Seals do not haul out upon the land along the coast and give birth to their young; nor do they breed on the kelp. If ever there was such an occurrence it must have been a premature birth caused by some accident to the female seal and would result in the death of her young.

Entering Bering Sea. Previous to 1885 only two or three sealing vessels had ever gone to the Bering Sea to hunt seals and the sealing from Victoria prior to 1886 was confined to the coast, and the crews were Indians who hunted with spears. Seals were caught by them with spears and but few were lost; but since the shotgun has come into use a great many are destroyed and lost.

Protection necessary. Do not haul up on coast.

C. PETERSON.

Subscribed and sworn to before me on this 23rd day of April, A. D. 1892.

[SEAL.]

LEVI W. MYERS,
United States Consul.

Deposition of Edwin P. Porter, sealer (boat-steerer).

PELAGIC SEALING.

DOMINION OF CANADA,
Victoria, B. C., ss :

Edwin P. Porter, being duly sworn, deposes and says: My age is 25 years; residence, Victoria, British Columbia; occupation, seaman and seal-hunter. I went out sealing as boat-steerer on the British schooner *Penelope*, Captain Steel, master; I think it was in the year 1888 when I went in her. She had five boats and white hunters. They used shotguns and rifles, shotguns chiefly. We left Victoria about the last of January and cruised along the California and Oregon coast and caught about 1,000 seals before we entered Bering Sea. We entered the sea about the first week in July and caught about 1,100 more. We left the sea about the latter part of September. We caught some off the Copper Island, but most of them were taken from 30 to 100 miles south and southwest of the Pribilof Islands.

Experience.

Penelope, 1887.

Sealing off coast.

Entered Bering Sea.

In 1889 I went as boat-steerer on the British schooner *Ariel*, Capt. Rucknam, master. She had six boats and four canoes. Carried both white and Indian hunters. White hunters used shotguns and rifles. Indians used spears chiefly. We left Victoria in February and sealed over about the same course as the year before and entered the Bering Sea in July. We took about 500 skins before entering the sea and caught about 1,600 more around the southwest banks, from 30 to 75 miles from St. Paul Island. We were ordered out of the sea about the 1st of September by the revenue-cutter *Rush*.

Ariel, 1889.

Entered Bering Sea.

Ordered out.

In 1890 I did not go sealing.

In 1891 I sailed as boat-steerer in the British schooner *Umbrina*, Captain Campbell, master. She carried seven boats and had white hunters, who used shotguns and rifles. Left Victoria in March and sealed along the coast. I left her before she went into the sea. Her whole season's catch was about 900, but do not know what portion of them she caught before entering Bering Sea. This year I went as boat-steerer in the British steamer *Thistle*. She had six sealing boats and two whaling boats, and carried white hunters, with shotguns and rifles. She left Victoria in February and sealed off the California coast. I left her in March. She had only 79 skins.

Umbrina, 1891.

Sealing off coast.

Thistle, 1892.

Sealing off coast.

My experience in four years sealing is that nearly all the seals taken along the coast are pregnant females, and it is seldom that one of them is caught that has not a young pup in her. In the forepart of the season the pup is small, but in May and June, when they are taken off the Queen Charlotte and Kodiak Islands the unborn pup is quite large, and we frequently take them out of the mothers alive. I have kept some of them alive for six weeks that were cut out of their mothers, by feeding them condensed milk. The seals we captured in Bering Sea were fully 80 per cent females that had given birth to their young. A fact that I often noticed was that their teats would be full of milk when I skinned them, and I have seen them killed from 20 to 100 miles from the seal islands. We try to kill the seal while sleeping on the water, but also shoot at them when they are breaching.

Nearly all pregnant females.

Eighty per cent females.

Taken 100 miles from islands.

An ordinary hunter will lose about four out of every six he kills. Some do not do near as well, while others do better. The percentage of loss to those killed is less on the coast than it is in the Bering Sea, for the seals are more fat and do not sink as quick, but a great many are wounded and lost. The Indians, when they use the spears, lose but very few. They get up close to the sleeper and scarcely ever miss getting it. I know of no place on the coast where seals come up to land, and I am positive there is none. Seals are not near as plentiful as when I went out in 1888, and I believe the decrease is due to their being hunted so much with shotguns and rifles.

Waste of life.

Do not land on coast.

Decrease.

EDWIN P. PORTER.

Subscribed and sworn to before me on this 22d day of April, A. D. 1892.

[SEAL.]

LEVI W. MYERS,
United States Consul.

Deposition of William Short, sealer (boat-puller).

PELAGIC SEALING.

PROVINCE OF BRITISH COLUMBIA,

City of Victoria, ss :

William Short, being duly sworn, deposes and says: I am 26 years old and reside at Victoria, British Columbia and am by occupation a painter. On January 14, 1890, I sailed as a boat-puller from Victoria, British Columbia, on the British sealing schooner *Maggie Mac*, Dodd, master. She carried six sealing boats that were manned by three white men each, who used breechloading shotguns and rifles. We began sealing off Cape Mendocino and sealed south as far as Farallone Islands, thence north toward the Bering Sea. We captured 1,120 seals on the coast before entering the sea. On the 12th of July we entered the sea through Unimak Pass. Lowered the boats on the 13th and captured about 2,093 seals in those waters, and then returned to Victoria on the 19th of September.

In July, 1891, I sailed out of the port of Victoria, British Columbia, as a hunter on the British sealing schooner *Otto*, O'Reily, master. She carried one stern boat, manned with three white men. We proceeded up the coast for the purpose of procuring our Indian crew of sealers. Failing in this we returned to Victoria on the 1st of August. While cruising along the coast our principal catch was female seals with pup, the balance being principally yearlings, about half male and female.

In some instances we ran upon schools of seal and shot five or six, all of which would be lost; in other instances we would secure about one-half of those wounded. One half of all seals shot on the coast are lost.

I do not know of any place on the coast where the seals haul out upon the land to breed; nor do I know of any instances where the seals give birth to their young on the kelp. Fully 90 per cent of all seals secured by us in the Bering Sea were cows, in milk. We seldom captured a bull, one of which we shot over twelve times, and afterwards it escaped. There are not so many seals lost in the Bering Sea as there are on the coast. We caught seals all the way from 50 to 250 miles from the rookeries, on the Pribilof Islands. We caught female seals, in milk, near the 72 Pass, in the Bering Sea. The 72 Pass is about 230 miles from the Pribilof Islands. I noticed a decrease in the number of seals off Cape Flattery when there in 1891, as compared with the other season. In my opinion, it is a shame to kill the female seal before she has given birth to her young. Pelagic sealing in the North Pacific Ocean before the middle of June is very destructive and wasteful and should be stopped; seal hunters shoot all seals that they can, because they are paid so much a skin, whether large or small, male or female. It is impossible to distinguish the sex of the seal in the water, except the old ones. I think pelagic sealing in the sea should be prohibited until such a time as the pup may have grown to the age at which it may be able to live without nurse from its mother.

W. SHORT.

Subscribed and sworn to before me on this 23d day of April, A. D. 1892.

[SEAL.]

LEVI W. MYERS,
United States Consul.

Deposition of Fred Smith, sealer.

PELAGIC SEALING.

Fred Smith, being duly sworn, deposes and says: Was born at and reside in Victoria. Have been a seal-hunter for the last three years on the *Winifred*, *Sea Lion*, and *Mascot*, British schooners, and the American schooner *Challenge*. Have hunted seal in Bering Sea and the Pacific Ocean. Have seen and taken seal off Cape Flattery in March. Have constantly advancing up the coast. I followed them into Bering Sea where they arrive about July 1st. Always use a shotgun exclusively for taking seal. I think about one-third of the seal shot with shotgun are lost. A very large majority of the seal taken in the North Pacific Ocean are cows with pup, and the majority of seals taken in Bering Sea are cows with milk. But a very few yearlings are taken, and once in a while an old bull is taken. The male seal taken are between two and four years old. Hunters use no discrimination, but shoot everything that comes near the boat. When a seal has his nose out of water and you shoot him, he will sink at once, and if you shoot a seal and he turns his nose out of the water, he will sink immediately and is hard to secure under those conditions. Have never known any pups to be born in the water nor on the coast elsewhere than on the Pribilof Islands. Have never known any fur seal to haul up on the land anywhere on the coast except on the Pribilof Islands. I have taken female seals 80 miles off the Pribilof Islands that were full of milk. If seal are not protected in the North Pacific Ocean and given a chance to raise their young, they must soon be exterminated, for most of the seal killed in the Pacific Ocean are cows with pup.

Experience.

Winifred, Sea Lion, Mascot, Challenge.

They are con-

Migration.

Majority taken are pregnant females.

Indiscriminate killing.

No pelagic birth.

Do not haul up except on Pribilof Islands

Protection.

F. SMITH.

Subscribed and sworn to before me this 3d day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Joshua Stickland, sealer.

PELAGIC SEALING.

Joshua Stickland, being duly sworn, deposes and says: I reside in Victoria, British Columbia; I am by occupation a seal-hunter; have been in the business two years on the British schooner *Umbrina*. First struck the seal off the Columbia River about February 1. Follow the seal up the coast

Experience.

into Bering Sea, which they enter early in July. I use the shotgun exclusively for taking seal. About 25 per cent of seals shot are lost. Most of the seals taken are females with pup. Out of 111 seals last year I killed but 3 bulls. A very few yearlings have been taken by me. A few male seal have been taken by me from 2 to 4 years old. Hunters use no discrimination, but shoot everything in shape of a seal that comes near the boat. Have never known or heard of pups being born in the water or on the land anywhere outside of the Pribilof Islands. Have never known of fur seal hauling up on the land on the coast anywhere except on the seal islands. Have killed cow seals that were full of milk over 40 miles from the Pribilof Islands. From May 1 to September 15 I think seal ought to be protected in Bering Sea and the North Pacific Ocean. If not they will soon be exterminated.

JOSHUA STICKLAND.

Subscribed and sworn to before me this 1st day of May, 1892.

A. W. LAVENDER,

United States Treasury Agent.

Deposition of John A. Swain, sealer (boat-puller).

PELAGIC SEALING.

DOMINION OF CANADA,

Victoria, British Columbia, ss:

John A. Swain, being duly sworn, deposes and says: I reside at Victoria, British Columbia. I am a seaman by occupation and am 27 years old. I went sealing in May, 1891, as boat-puller in the steamer *Thistle*, Nicherson, master. She carried seven boats and one stern boat, all white crew, and three men to each boat. We began sealing off the Columbia River, and then sealed northward up the coast to Bering Sea, and captured about 320 seals in the North Pacific Ocean, most all females, and nearly all had young pups in them. A great many seals are lost in hunting them by sinking before the boats can get to them, and a great many are badly wounded and escape. Our hunters used shotguns and lost a great many; I think we would save two out of five that we killed. We entered the Bering Sea in June through Seventy-two Pass and caught about 100 seals, when we were ordered out of the sea. They were all females that had given birth to their young.

Experience. Only females taken.

Thistle, 1891. In February, 1892, I again shipped in the schooner *Geneva*, O'Lery, master; she carried seven boats and one stern boat, and three men to each boat; I was boat steerer. We commenced sealing as soon as we got outside of the cape, and captured about 270 seals along up the coast. Most of the seals caught were pregnant females, and when we would skin them the milk would run out of them on the deck. I am sure there is no place on the coast where they haul out upon the land and give birth to their young,

No pelagic birth.

Do not haul up except on Pribilof Islands.

Nursing females killed.

Protection.

Sealing off coast.

Pregnant females taken.

Waste of life.

Entered Bering Sea.

Do not haul up on coast.

nor do they give birth to their young on the kelp. I do not consider it right to kill the mother seal before she has given birth to her young pup; I do not think they should be killed until six weeks after giving birth to their young. ^{Protection necessary.} The hunter tries to shoot the seals in the head or through the heart. I left the vessel at Clayquot and arrived at Victoria on the 1st of April; the vessel is out now.

JOHN A. SWAIN.

Subscribed and sworn to before me on this 22d day of April, A. D. 1892.

[SEAL.]

LEVI W. MYERS,
United States Consul.

TESTIMONY TAKEN IN THE STATE OF WASHINGTON.

Deposition of A. B. Alexander, fishery expert on the U. S. Fish Commission steamer Albatross and United States revenue steamer Corwin.

PELAGIC SEALING.

STATE OF WASHINGTON,
County of Jefferson, ss:

Personally appears before me A. B. Alexander, who, being duly sworn, deposes and says: I am 37 years of age, a citizen of Gloucester, Mass., and have been for six years and still am an employé of the U. S. Fish Commission as a fishery expert, being detailed for service on the Fish Commission steamer *Albatross*. On March 29th I was detailed for temporary service on the United States revenue steamer *Corwin*, and am still so engaged. During my service on the *Corwin* I have cruised as far north as Yakutat Bay. I have visited, with but few exceptions, all the ports and native villages from Dixon's Entrance to and including Yakutat Bay. I have personally conversed with the Indians, owners of vessels, seal hunters, both native and white, and others engaged in the sealing business. I have been in canoes and boats, and personally observed the taking of seals by all methods practiced on this coast, and have thus sought to familiarize myself in every way with the aquatic habits of the seal, their habitat, method of capture, and all matters of interest connected with the sealing industry.

There are two methods of taking seal in the water practiced on the northwest coast; white men employ firearms exclusively, while the native Indians generally use spears. The most expert of these spearmen are the Neah Bay Indians, and as seal hunters they surpass all others.

An expert white hunter, even with the best of firearms, can not compete with them, for when he approaches a group of sleeping seals, all in close proximity to one another, he can not expect to get more than one of the number. The noise of his gun will startle all others within a radius of a quarter of a mile or more, thereby destroying all chance of catching another seal asleep. It sometimes happens, however, that a skilled hunter will capture two or three out of a group, but such cases are exceptions rather than the rule. It is different with an Indian hunter who uses a spear; he silently approaches the sleeping victim and noiselessly hurls his spear at it with a deadly aim, and the only thing heard is the hard breathing and slashing of the seal as it fights for liberty.

The spear which the Neah Bay Indians use is double pronged, which in their hands is a formidable weapon. The shaft is 12 feet long, and made of cedar; the prongs are hard wood, one 30 and the other 18 inches long, about 4 inches apart

at the ends, and pointed. The prongs and shaft are scarped together and held in place by a serving of small cotton line. The long prong is a continuation of the shaft, but the short one projects off at a slight angle. The spearheads are made of bone and steel, with a single barb at the sides and a socket in the butt, into which the ends of the prongs are fitted. In the middle of the spearhead is a hole, into which is bent a lanyard made of whale sinew, which is sewed with cotton twine to prevent it from chafing. To the lanyard is fastened the spear rope, which in early years was also made of whale sinew, or other durable material, but now cotton line is used as a substitute, it being much easier procured, and answers the purpose equally as well. The spearheads are held in position by the spear rope, which is hauled taut and fastened to a whalebone becket at the end of the shaft. In throwing the spear, two fingers of the right hand are placed over a small flat handle, the other hand acting as a rest upon which the spear is balanced. When the spear is thrown the long prong is held uppermost. The reason for this is that if it should pass over the back or head of the seal the short prong will be sure to strike it. As soon as a seal is struck the spearheads slip from the prongs and the rope from the becket. No notice is taken of the shaft, as it can be picked up after the prize has been secured.

As an illustration of this method of taking seals, I give in detail one of my experiences: On the afternoon of April 23d I went out in one of our canoes, managed by two Neah Bay Indians, father and son. The weather being pleasant and sea smooth, sail was set, and with the assistance of paddles we made good speed in a southwesterly direction. Two men usually go in a canoe; one handles a spear and the other a steering paddle. No great importance is attached to the man who steers, as it requires no special skill to keep the canoe on the course desired; but to the skill of the one who stands in the bow and throws the spear depends the success of the hunt, and if he should be so unfortunate as to miss several seals in succession his dusky partner in the stern thinks himself justified in using strong language. All seal-hunting canoes carry a small sprit-sail made of drilling, which can be set and taken in very quickly with little or no noise. Oars and paddles are both used; the former when a long passage is to be made, the latter when among seals. The spearman always keeps a lookout for seals, and stands upon one of the forward thwarts, with one hand resting against the mast to steady himself. In this position he commands a good view on either side and ahead. It is not to be understood, however, that the man in the stern keeps no watch, for his eyes are ever on the alert, but his lower position prevents him from seeing any great distance. As soon as a seal is sighted the sail is taken in, rolled up, and placed where it can not make a noise by thumping against the side or on the thwarts. The gaff and killing club are placed in a handy position, and the spear examined to see if everything about it is strong and in good working order. If the seal is some distance away both the men paddle, but if close by only the hunter at the stern paddles, the direction being indicated by a wave of the hand from the man in the bow.

Silently the sleeper is approached, all unconscious of its danger. If the coveted prize should show signs of uneasiness, no risk is taken, and the hunter throws his spear when within 40 or 50 feet of it. He seldom misses the mark even at this distance, but will always approach nearer if possible. At the end of an hour we saw our first seal about a quarter of a mile ahead. The canoe was kept off under its lee, the sail taken in, and everything put in readiness for action. Cautiously we paddled

towards the prey, care being taken not to make the slightest noise. We had approached within about 40 feet when the seal began to grow restless, as if it was dreaming of danger. The hunter stood braced, spear in hand, and with true aim he hurled it with all his force at the sleeping object. In an instant the scene of repose was changed into one of intense excitement and pain. With a jump the seal instantly disappeared below the surface, but not to escape, for when once a spear becomes fastened to an object it seldom pulls out. Soon it came up to breathe and renew its desperate struggle for liberty. It stood in the water facing us, with its body half exposed as if taking in the situation, and with a kind of low, piteous growl, as though it realized its end was near, it renewed the contest. It fought madly, diving, jumping, and swimming with great speed, first in one direction and then in another, sometimes on one side of the canoe and then on the other, the Indian all the time holding on to the spear rope, trying to draw the seal near the canoe so as to strike it on the head with the killing club. In its frantic efforts to escape it bit at the line several times, but soon abandoned the idea of gaining its freedom in such a manner and again resorted to jumping and diving. The loss of blood soon caused it to grow weak, and after a fight, which lasted perhaps five minutes, it ceased to struggle altogether, and was hauled to the side of the canoe and dispatched with the club.

In a few minutes another seal was observed asleep a short distance away; again sail was taken in and the same precautionary means used as before. This individual was approached within 25 feet, and so good a mark was it that the spear was driven nearly through the body. It died almost immediately, and from the time it was struck until it was landed in the bottom of the canoe did not occupy more than three minutes.

We had not proceeded far on our course when two seals were sighted close together. They were so near each other that it was impossible to spear one without waking the other, so the larger one of the two was selected. As soon as it was struck, the other awoke, and with a few jumps was out of danger, leaving its companion to perish alone. We soon found that this seal was going to make a hard fight and would probably give us no little trouble. It jumped and dived in quick succession, pulling at the spear rope with sufficient force to move the canoe about in a lively manner, and on two occasions the Indian who was "playing" it had to let go of the line altogether to save himself from being pulled overboard. This kind of work was very severe on the hands, but the Indian held on regardless of bleeding fingers. When the seal would come to the surface to breathe a little slack rope would be gathered in, only to be lost much quicker than gained. And so they fought; first the hunter and then the seal would have the advantage of the situation, and, at the end of eight or ten minutes, the seal apparently was as fresh as when first struck. It looked as if the fight might last for a considerable length of time, which of course did not suit the Indians. In order that there should be no mistake about the result of the fight, an old rifle was brought forth from the bottom of the canoe. Watching his opportunity when the seal was making one of its leaps, the hunter in the stern fired. He missed the mark twice, but these failures did not by any means prove him to be a poor shot, for a person who can hit a seal that is jumping wildly about in every direction at the end of a spear line is indeed a good marksman. A third shot, however, took effect, and the battle was decided.

Close quarters evidently did not suit the seal, for it showed its teeth

in a very unfriendly manner, and on one occasion set them in the side of the canoe. This act was the only false movement the seal had made since the fight began, and it paid the penalty with its life; a rifle ball was put through its body and a club landed on its head at the same time. Upon examination, after being hauled into the boat, we found that the spear-head had passed through its right flipper, which accounted for the long fight, as it could use its other flippers to good advantage.

Prosperity has the same effect upon Indians as upon white men, and soon sail was made and a sharp lookout kept for others. Two more were observed during the afternoon, one of which was captured very easily. The other was awake and came up a short distance away with a red rockfish in its mouth. This fact indicates that there are shallow spots in this vicinity (Lat. $58^{\circ} 58'$ north; Long. $141^{\circ} 7'$ west) where seals feed. Indeed, it may be one of the

Feeding grounds.

favorite feeding grounds when in northern waters, for it has long been reported that many fishing banks exist on the Fairweather grounds. This was the last seal seen during the day by us. A fresh breeze sprang up, accompanied by a short, choppy sea, and in consequence we were obliged to return to the ship, where we arrived about 6 p. m.

In hunting seals the white men use an otter boat manned by three men—the hunter, boat-puller, and steerer. The favorite weapon is the shotgun, and rifles are but little used. The No. 10 Parker gun is preferred, and the usual charge is 5 drams of powder and twenty-one No. 2 buckshot. The seals are shot under any conditions in which they may be found, provided they are in range.

Whitemen's method and weapons.

No discrimination is or can be used; everything is game that comes within range of the hunter's weapon. From their habits in the water the seals are known as "jumpers" or "breachers" when they are moving through the water, "rollers" when they are lying idle on the surface and moved by every wave, "finners" when they are resting and "finning" themselves with their fins, and "sleepers" when they are asleep on the smooth water and can be approached to within close range.

Indiscriminate killing.

"Jumpers."
"Breachers."
"Rollers."
"Finners."
"Sleepers."

In sleeping, the seal's head is to leeward and the steerer will endeavor to work the boat so as to approach from that direction and give the hunter an opportunity to shoot the seal in the back of the neck. When so shot they take longer to sink than when shot in the face; that is, if a seal bobs up in the water, its body being in a submerged and horizontal position, and if it be instantly killed by the shot it will at once sink. It is then that the 8 or 10 foot gaff is used to recover it. It has been my observation that the rapidity with which seals sink is influenced by several conditions. A pregnant female will sink less quickly than a male of equal size. If a seal be shot at a time when the air is well exhausted in the lungs it will sink more quickly than if killed when the lungs are inflated. If a seal is asleep and shot in the back of the head it will float for several minutes, thus enabling the hunter to secure it.

Sinking seals.

I have noticed that the stomachs of the majority of seals captured, provided they were young females or immature males, were empty. While the stomachs of the old bulls were well filled as though preparing themselves for the demand of the breeding grounds. Their diet was made up of salmon, red rockfish, and squid.

Food.

The destructiveness to seal life by pelagic hunting is very great. The majority of seals killed are pregnant females, so that two lives are often sacrificed in securing one skin. This is true whether firearms or spears are used. In addition to this, the number of skins marketed does not represent the number actually destroyed, for many are killed that are not secured, while others, though fatally wounded, still possess strength enough to escape their pursuers.

In studying aquatic seal life on the Northwest Coast, there has come under my observation another source of waste. That is, the destruction of bulls that are fit for service upon the breeding grounds on the seal islands. While the injury to the herd from killing these males is, in general, not so great as that which arises from the killing of cows, nevertheless, the destroying of an animal which has required six or seven years of life to prepare it to assist in the perpetuation of the species is a serious menace to the life of the herd.

From my general knowledge of natural history, from my study of the habits of seals, as well as from the opportunities I have had to acquaint myself with the sources of destruction which are at work, I firmly believe that pelagic sealing would not only account for the diminution of the seal herd, but if continued the seals will inevitably be commercially destroyed.

A. B. ALEXANDER.

Subscribed and sworn to before me this 26th day of May, 1892.

[SEAL.]

H. L. BURKETT,

Notary Public, Residing at Fort Townsend.

Deposition of Wilton C. Bennett, sealer (hunter).

PELAGIC SEALING.

Wilton C. Bennett, being duly sworn, deposes and says: I was born at Neah Bay. I am 32 years old and have been a seal-hunter all my life in the North Pacific Ocean, and one season in Bearing Sea, always in the capacity of hunter. I have first seen and taken seal off Cape Flattery in March; have followed the seal up as far as Bartlett Sound, which they leave about June 1; have used a spear for taking seal all my life, but when seal are wild sometimes I used a shotgun. No seal were lost when struck with spear. About 40 per cent of seal shot with shotgun are lost and more when the rifle is used. Most all the seals taken by me have been cows. I think cows sleep more and are more easily approached. Never killed but seven old bulls on the coast of Washington in my life, but have taken a few pups every year. The sex of the seal can not be told in the water; I shoot everything that comes near the boat. Seal when shot dead sink very quick, and are hard to see under those conditions. Seal are not as plentiful on the coast as they used to be. They have been decreasing very fast the last few years. I think this is caused by the indiscriminate killing in the water. I have never known any seal pups to be born in the water or on the coast anywhere, except on the Pribi-

Waste of life.

Destruction of bulls.

Protection.

Experience.

Migration.

Mostly cows taken.

Indiscriminate killing.

Decrease.

Pups not born in water or on coast, except on Pribilof Islands.

lof Islands. Have never known seal to haul up on the coast anywhere outside of the Pribilof Islands. Most of the seal taken in Bering Sea by me were cows with milk. Cows with milk have been taken by me 100 miles from the Pribilof Islands. I think that all pealgic hunting should be stopped, so that seal would have a chance to increase.

Do not haul up any-
where but on Pribi-
lof Islands.

Mostly cows with
milk.

Protection.

WILTON C. BENNETT.

Subscribed and sworn to before me this 26th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of William Brennan, sealer (sailing master, boat steerer).

PELAGIC SEALING.

STATE OF WASHINGTON,

County of King, ss :

William Brennan, being first duly sworn, deposes and says: I am 37 years of age; was born in London; am by occupation a seafaring man; and reside at Seattle, in the State of Washington. I have spent the best years of my life in the close study of the denizens of the sea, including seals and the modes of capturing them, such as seafaring men bestow upon matters in which they are interested participants. I first went to sea in November, 1869, and have been connected with shipping matters for twenty-three years. Passing my examination as second mate in London in 1874, I went to Australia, thence to China and Japan, remaining in Japan several years. In April, 1881, I went as sailing master of the Dutch schooner *Lottie*, Ans Oster-son, master, to hunt otters and seals around the Kurile Islands. We arrived at Skotan about May, and hunted otters until the middle of September, then went back to Skotan to fill up with wood and water. Meeting two schooners there an agreement was made to work together and raid Robben Island for seals. The *Lottie* being old and unseaworthy, it was decided that she should remain in port and I should remain in charge of her and look after all skins. The *Lottie's* captain, hunters, and best men of her crew were divided among the other schooners. They were away about six weeks, and came back with a good catch.

Experience.

Lottie, 1881.

Raid on Robbin
Island.

We left the *Lottie* on the beach, and all arrived safely back in Japan. I was nine months on that voyage.

In March, 1882, I shipped from Japan as first mate in the Russian schooner *Nemo*. She was fitted out for hunter, fishing, and trading, and carried 5 boats, a steam launch, 2 canoes, and 32 men all told. We started for the Neva River in Saghalien. On arriving there I went on shore with an interpreter, and the schooner started for Kamchatka. I was to fish, or hire men to do so, prospect for minerals for two months (having permit papers to do so), and then devote my time to seals and their habits, with the idea of capturing them. In September I landed on Robben Island with 7 Russian soldiers and remained fifteen or twenty days watching seals, and waiting for the *Nemo* to come, but she never came. The Russians

Nemo, 1882.

getting tired, we went back to the river, and I remained in that country until the next August, when I started back to Japan, arriving there in October.

In 1884 I again went hunting from Yokohama in the German schooner *Felix*, Charles Sternberg, master. She carried three 30-foot boats, 6 men to each boat, 5 Japs and a white man. In September, while lying at anchor with 2 other schooners under Cape Patience, we were boarded by a Russian officer and armed seamen, who came from Robben Island in the guard schooner *Leon*, and all of our guns were taken from us and we were warned off. We went away, but came back in three weeks and found the man-of-war guarding the island. Dodging around, we waited until she had gone, and the next night made a landing and a haul of over 500 good marketable skins.

The next morning, being a few miles from the island, we sighted the man-of-war bearing down towards the island. We made all sail and got out of sight as quickly as possible, and returned to Yokohama in November. Having heard of seals being shot in the water on the Pacific side, I came over to test the matter. In 1886 I left Seattle on

board the schooner *Challenge*, Douglas, master, to hunt seals off Cape Flattery, our headquarters being Clalam Bay, carrying 12 or 15 Indians with canoes, and remained sealing until the end of May, when I came back to Seattle, the charter being up. On that voyage we captured about 300 fur-seals.

In 1887 I went back to Japan. I left Yokohama on the English schooner *Ada*, Van Pelt, master, and brought her across to Victoria, British Columbia. We arrived in May and sailed in June with an Indian crew, making a six weeks' cruise off the Vancouver coast, and capturing about 300 seals. Upon returning to Victoria, I left the vessel and went to Alaska.

In 1889 I went as boat-steerer on the schooner *Teresa*, of Victoria, Lawrence, master, and put the season in at sealing.

I have since followed the sea as sailing captain, pilot, and quarter-master on vessels sailing out of Victoria, British Columbia. In my opinion, fur seals born on the Copper, Bering, or Robbin islands will naturally return to the rookery at which they were born. The same thing is true of those born on the St. Paul or St. George islands. No vessel, to my knowledge, has ever met a band of seals in midocean in the North Pacific. I have crossed said waters on three different occasions, and each time kept a close lookout for them. The greater part of the seals that we find in the North Pacific Ocean are born on the islands in Bering Sea. Most of them leave there in October and November. If the weather is mild, they stay longer, but when the snow falls they leave the rookery and take to the water. Here they swim around for some days, and if it grows milder and the snow melts a great many will haul up again, but if the weather remains very cold all leave and start for the south.

The breeding cows and full-grown bulls leave first, the old bulls perhaps a month or more before the young males and cows. They travel along the coast, following the Japan stream on both sides of the Pacific Ocean, those from the Pribilof Islands on this side, and those from the

Commander Island on the Asiatic side. On the American side, some of them travel as far south as Lower California, and on the Asiatic side as far south as Japan and perhaps farther. On the American coast they are found as early as January off southern California, in limited numbers, and are more plentiful further north later in the season. They gradually work towards the north, and about March are "bunching" off Grays Harbor and the Columbia River, and are found in large numbers a little later about Cape Flattery and Vancouver Island. They are found close in-shore to 40 or 50 miles off. After June very few remain along the coast. A few stragglers may be seen about that time; the most of them start in earnest for the rookeries about that time, in the Bering Sea. The cows are at this time heavy with young, and are slow and sluggish.

Appearance off California coast.

In May, the bull seals commence to haul up on the rookeries, and the cows come three or four weeks later. The bulls choose

Arrival of bulls and cows.

such ground as they mean to hold through the summer, fight savagely, and the strongest wins. Each has his own family, and should a stranger approach there is war. On the rookeries one may see all classes of seals apart from each other, the bulls and breeding cows in one place and the young in another. The pups are born on the rookeries, and remain with their mothers, living wholly upon their mother's milk until they can go into the sea and care for themselves.

Position of seals on rookeries.

There is nothing on the beach for the old ones to eat, and they go several miles from the rookeries out to sea to obtain food. When the pups are born they can not swim and the mothers take them to the water's edge, where one can see thousands paddling and struggling in the surf. The noise made by the mothers crying for their pups, and the bleating of the pups in answer, make a constant roar. The cow is 3 years old before she bears young. The pups are about 45 days old before they can go into the water, but they nurse the mother as long as they stay on the island. They are called "black" and "gray" pups; black before they shed their first coat and gray afterwards. As they grow older the gray turns darker, except upon the neck and head; but the color of the hair does not affect the fur, which can be seen by parting it. The thickness and length of the fur determines the value of the skin. They live on fish and seaweed, and if they are driven or hunted too hard on the islands are liable to migrate to some other place. If they are managed right they may be driven like sheep along the beaches. They do not run fast on shore, unless alarmed, when they give a man a good race to catch them.

Seals feeding.

Pups and their habits.

The people on the islands pick out the young males for killing. One blow over the nose crushes the skull and kills them. They are then skinned and the bodies are left on the field or eaten by the natives. Seal meat is very good eating, but rather dry, as the fat must be all cut away to make it eatable. The seals are found on St. Paul and St. George, and on Bering and Copper islands in Bering Sea. They are also in small numbers on Robbin Island in the Okhotsk Sea. Several years ago they were plentiful off Cape Horn, and about twenty-five years back I saw some near Cape Good Hope, and also off New Zealand; but whether they are to be found there now I do not know. The best skins come from Bering Sea, and the farther north the better the skins. When the seals are asleep on the water they lie on their backs with the fore flippers sticking

Food of seals.

Killing.

Where seals are found on land.

Seals sleeping.

up and held close to the head. They always lay with the head toward the wind, the flippers being spread out and acting as sails to keep them steady in the water, making it hard for a boat to approach them when they are awake, because the noise of the oars is carried to them. If a boat comes upon them from the windward they will take the scent and dive, and if from leeward, they readily see it, and do the same.

On the United States Pacific coast and Vancouver's Island, in fine weather, they are found, as I have said, 40 or 50 miles offshore; but during bad weather they approach nearer the coast. On the Japan coast, about November or earlier, depending on the weather, they are seen in great numbers among the islands off the Nemoro group, and I have also seen several off In-neboi-Saki, but do not know whether they are to be found off that coast in the spring or not. Steamers and schooners going north keep close inshore, and in returning too far off to see seals, provided they travel that coast, as I believe they do, many having been shot off the Kurile Islands in the spring and summer months.

Seven or eight years ago, when seals were hunted almost wholly by Indians with spears, a vessel hunting in the vicinity of Cape Flattery was sure of getting several hundred skins in about three months, from March to the end of May, but at the present time a vessel is doing well if she gets a much smaller number, because the skins bring much

Decrease.

higher prices. The records of "catches" in the last three or four years will confirm any person who examines them in the belief that the seals are decreasing in the Pacific Ocean on the American side. I have no reason to doubt that it is the same on the Russian side. At present they are hunted vigorously, and with better methods than formerly. The hunters have had more experience and understand their habits better, but notwithstanding this the catches are decreasing off the coast. If a vessel hunts seals from January to May along the coast and pays expenses it does well at the present time, and very few do it. Nearly all would lose money

Sealing in the Pacific does not pay.

if the hunting was confined to the Pacific Ocean, but they depend on the Bering Sea catch, where the seals are more plentiful and occupy a more limited space as a feeding ground.

It is not easy to tell a bull seal from a cow, or either from a year-old pup, when they are in the water, and the hunters must shoot at all the seals they see. If they get them they are fortunate, for at the best many are lost. Some hunters rarely miss a seal they fire at, but many are wounded, and a seal with a charge of bullets and buckshot in him must be in very vigorous health to recover. Some hunters never miss a seal during the season, but if others get one out of four they wound they are doing well.

Waste of life.

The work of seal hunting is carried on about as follows: The hunter and boat's crew leave the vessel at daylight, usually carrying one rifle and a shotgun, though some of them have two shotguns with about fifty rounds of ammunition for each gun. If a breeze is blowing they go under sail, or, if it is calm, the boat is rowed. The hunter has charge of the boat, no matter if he is not an expert boatman.

If a sleeping seal is seen, the boat is run within about 100 yards of it, and the sail and mast are lowered with the least possible noise, as the seals are easily awakened. The boat steerer cautiously paddles toward him, being careful to keep to the leeward, and with ordinary care the boat can come within a few feet of him before he is aware of it; then, if the hunter is cool, the seal

Sleeping seals.

Pelagic sealing. How carried on.

is sure to be captured. Should the seal be only wounded, he will dive, unless hit in the flipper or nose. If he is not killed so dead as to be unable to dive, ten to one he will get away, for it is uncertain where he will come up, and the boat may be a long way from him when he reappears. In such case the boat usually remains still, with boat puller and steerer standing ready to follow him as soon as he is seen; but he very often rises out of range and gets away. An experienced hunter and boat's crew will get at least seventy-five per cent of "sleepers" and perhaps more; but the sleepers form but a small part of the seals hunted. The noise of firearms will awaken every seal within the distance of half a mile, and put it on the alert. The boats stay out until dark, if the weather is fine, and the five or six usually carried by a sealing vessel cover an area of five or ten miles on either side.

If the seal is "finning" the hunter will probably spend ten or a dozen rounds of ammunition, provided he wounds it with his first shot before he takes it in, which he often fails to do. If it is "breaching"—that is, jumping clear of the water—the hunter will most likely try a rifle-shot at it, as there is a bare chance that he may hit it. If he wounds it and it escapes it is all the same to him, except that he has one less skin.

To be a good hunter a man must be a crack shot on the start, and then it will take him at least two seasons to learn the motions of the seal, so as to be considered an expert. He must understand how to approach the seals under all circumstances so as not to arouse them, and must also have a good boat steerer, as a great deal depends on him. Perfect quiet must be kept in the boat, or the seal will be awakened; and the boat steerer must understand the seal's habits as well as the hunter, in order to know where to head his boat and where to keep her. A crew new to the business sometimes makes a good catch, but it is generally at the expense of a large proportion of seals that are killed and lost, or wounded and escape. The vessels engaged in the sealing business range from 15 to 150 tons burden, or more, large vessels being in favor because they can carry more boats, with less expense in proportion to size, than the small ones.

The principal ports from which sealing vessels sail are Victoria, British Columbia, San Francisco, Cal., Port Townsend, Wash., and Yokohama, Japan. The fleet from Victoria comprises sixty vessels or more, and one will travel the world over without finding better or faster schooners than some of them are. Next to Victoria in numbers comes San Francisco, all under the American flag. Yokohama formerly sent out twelve or thirteen vessels under different flags. I have seen vessels operating from that port flying the Dutch, German, French, Russian, American, English, and Japanese flags, engaged at otter and seal hunting. About seven or eight vessels are from Puget Sound. The Victoria and Puget Sound fleet attends only to sealing, while the vessels from San Francisco and Yokohama engage in otter-hunting and sealing combined. The vessels carry from one to seven boats each, and each boat except the one carried at the stern is manned by three men. In going upon the hunt the hunter stands forward, the boat puller sits in the center of the boat, and the boat steerer in the stern. The boats are from 18 to 20 feet long and carry usually two pairs of oars, three or more paddles, a short seal-club to kill the seal with (if he is alive when they get him alongside), a gaff with a long staff to hook him up if he sinks, a fog horn, a

"Finning" seals.

"Breaching" seals.

Hunter: qualifications of.

Sealing fleet: size of vessels and equipment thereof.

Home ports of vessel.

compass, an ammunition box for the hunter, a water-beaker, a box for food, a small sprit sail and mast, and at least one shotgun.

Vessels that are manned by Indians do not carry hunting boats as a rule. The Indians furnish their own canoes and spears, and often a shotgun or rifle, or both. A vessel, say, of 70 tons, will carry six boats, five of them hunting boats, and one at the stern. The owner furnishes guns, ammunition, boats, food, etc., and engages the captain and hunters. The captain employs the boat pullers, steerers, and the crew, though in some cases the hunters engage their own pullers and steerers. A vessel of this size would carry twenty-one men, all told, including a captain, mate, cook, five hunters, nine men for the boats, one spare man,

and a boy. The master's wages range from \$75 to \$100 per month; but some of them get wages only, while

others have wages and a "lay," that is, a share of the profits. Good hunters get from \$3 to \$3.50 per skin for every one they bring on board; but each hunter has his price and makes terms with the owner, which he keeps to himself. The crew receive \$30 per month, and have sometimes a private agreement with the hunter to 10 to 25 cents additional out of his own pocket for each skin brought on board; for, as I have said, much depends upon the steerer, and each has his favorite. The mate gets from \$45 to \$50 per month, the use of the stern boat, and \$1 for every skin he brings on board. The cook receives from \$50 to \$80 per month, according to the number of men he cooks for.

The first vessels leave about January, and from then until March they are becoming fewer in port every day. They go to some of the bays and inlets upon Vancouver's Island, off Cape Flattery, or down along the California coast. Many hunt in a circuit from Cape Flattery to the mouth of the Columbia River on the south, and to the north end of Vancouver's Island on the north, as the head hunter or captain may determine. Some think, by going south and following the seals up as they move northward they will catch more; while others believe they can do better by staying

close to Cape Flattery. Those vessels which carry Indian hunters go to the Indian villages, and some of

them take as many as fifteen canoes if they can get them. Of late years the Indians are learning the prices of skins, and claim more than the owners can afford to pay. They always want to ship on a first-class schooner, unless they own it, when any rattletrap will do. When they start for Bering Sea they usually leave a part of their canoes behind, taking about one-third less than they used in the spring catch. The vessels furnish them flour, biscuits, tea, coffee, sugar, and a little meat, when they cannot get fresh seal meat. They have two men to each canoe. The head man of the canoe receives the money and pays his assistant. Each canoe is usually provided with a couple of steerers, and either a shotgun or rifle. The most skillful hunter among Indians on board is called "captain," and it is his duty to tell his men when and where to lower their canoes for hunting, and to transact all business between them and the captain of the vessel. Seven or eight years ago the Indians were paid by the length of the skin, but now they are paid by its grade.

In fine weather the boats leave the vessel at daylight and hunt until dark, taking about one day's provisions with them; and should they get lost in a fog they have a hard time until they are picked up by some vessel. When the boats come alongside the vessel, at night, the skins are counted on deck for each boat; the mate takes charge of them and salts them down in the hold, and the crew of each boat gets

credit for the skins it captured. The work continues until the spring season is finished, when some go to Victoria to refit, and others in Buncly Sound, and send their skins to Victoria by steamer, with orders for supplies to be sent to them when the steamer returns. Others go on without coming into port to Sand Point, or some other place on the coast, where there is a store, and take supplies before entering Bering Sea. They do not like to go into Victoria, because they usually have trouble with their crews. The work is hard and dangerous. The pay is small, and many run away when they get a chance. There are very few sailors among the crews, the most of them being green hands. Of course each vessel carries two or three sailors in case anything happens to the rigging or sails.

When they arrive in Bering Sea later in the season, they start in to work in earnest. The water is full of them and you can hear them firing all around. The vessels enter the sea about July, but get the most of the seals in August or early September, when the weather gets bad; but they usually have a good catch by that time, if not interfered with. When the hunting is finished they return to the home port, the crew is paid off, the vessel is laid up, and the owner takes charge of the skins and either sells them in the home port or ships them to London.

As I have said before, the pups are not able to take care of themselves until they are several weeks old, and the cows must go off into the water to get food for themselves. It stands to reason that if the mothers are killed while away from the island, and the pups are left there alone, they will surely die; and it is a fact that many mothers are killed in Bering Sea. If no seals were killed between the 1st day of April and the 1st day of September they would increase; but it would take international agreement to make killing of seals an offense during this season. It is not alone in Bering Sea that the pups and cows are destroyed. Keep all vessels out of these waters, and let the same number of vessels as are now afloat hunt seals in the North Pacific, and in a few years there will be none in Bering Sea. If the present number of vessels engaged in sealing is permitted to continue in the business from two to five years longer I think the seals will be exterminated or nearly so. I am certain the seals are doomed to extinction unless some immediate action is taken to protect them from the slaughter that is now going on. The sealers care nothing about preserving the seals, and say that the smaller the catch is the more valuable the skins will become in the market, and the higher the prices paid for them. In their whole conduct of the business they are controlled by the desire to kill as many as possible in order that they may enhance the value of future catches.

Bering Sea; time of entering.

Females killed while feeding.

Protection by a close season.

Exclusion from Bering Sea not enough.

Extinction certain unless protected.

WILLIAM BRENNAN.

Subscribed and sworn to before me this 8th day of June, A. D. 1892.

[SEAL.]

D. A. MCKENZIE,
Notary Public.

Deposition of James Dalgarduo, sealer (master).

PELAGIC SEALING.

James Dalgarduo, being duly sworn, deposes and says: I am a native of Scotland and am 58 years of age; have resided in the United States forty-five years, and have been a naturalized citizen forty years; I am a resident of Port Townsend and have resided in this vicinity for the past forty years, during which period I followed the business of fishing and piloting. I have been in the seal-hunting schooners for a period of eight years, either as master or owner of the schooner, and I hunted in the vicinity of Cape Flattery, say 30 miles off the cape in each direction. The first six years I employed Indian hunters from Cape Flattery and they used spears exclusively, as the opinion then was that the sound of firearms would tend to drive off the seals as well as waken the sleeping ones, thus making it more difficult to secure them.

During two of the eight years I employed mixed crews, some Indians and some whites; some using rifles and some using spears. The catch was in round numbers from 1,500 to 3,000 skins per year, these figures representing the lowest and the highest numbers ever taken by me in any one year. From 75 per cent to 80 per cent of all the seals taken were mothers in young, and when cut open on deck we found the young within them. It is my experience that very few, if any, seals were lost by the hunters who used the spear, but fully 75 per cent of all those killed by the rifle were lost. I have cruised up and down the coast of Vancouver Island, but never found a place where fur-seals hauled out upon shore, nor have I ever heard of any fur-seal rookeries in the Northern Hemisphere, except those in Bering Sea. I have never seen seals born in the water or on beds of kelp, nor do I believe a young pup could live if brought forth at sea. It was while the seals were asleep on the water, as a rule, that the Indian hunters succeeded in capturing them with the spear, and this is the reason they lost but very few of what they killed. Were I engaged at present in sealing I should prefer the spear to the rifle or shotgun, and I believe its use is not near so destructive to seal life.

JAMES DALGARDUO.

Subscribed and sworn to before me this 2d day of May, 1892.

JOSEPH MURRAY,
*United States Treasury Agent.**Deposition of Thomas Frazer, sealer.*

PELAGIC SEALING.

Thomas Frazer, being duly sworn, deposes and says: I am a native of England, and am 50 years old; have been seventeen years in the United States, of which I am a citizen. I am a resident of Port Townsend, and have resided in this vicinity during the past seventeen years. My occupation is that

of seaman, and I have hunted seals off Cape Flattery for sixteen years. In 1891 I was a hunter on board the *James G. Swan*, of Port Townsend, and we went along the coast and Aleutian Chain to the island of Senack. We left Neeah Bay about May 13, and commenced sealing along the coast of Vancouver, and we finished off Four Mountain Pass. We made a catch of 128 skins. The U. S. steamer *Thetis* spoke us on July 3, and our captain, Thomas Powers, said we had 218 skins; but at that time we had only 118 skins aboard; we took the others after being warned by the *Thetis*. We had seven boats, but we had only four white hunters; ten hunters were natives from Neeah Bay and Vancouver.

We used both shotguns and spears, as occasion required. When we see plenty of seals in sight we use the spear, and when we see only one or two we use the shotgun. Off Cape Flattery there is hardly a dozen large males taken out of every thousand large seals whose skins are called first class; all the males taken here are small ones. There is no way by which hunters can distinguish sex while the seals are in the water, nor do we aim to do so; the killing is always done in an indiscriminate way.

The seals are not so numerous off Cape Flattery as they used to be some years ago, and it is my opinion it is owing to the constant hunting by so many schooners. I am of the opinion that in order to save the seal from extermination all pelagic hunting in Bering Sea should be prohibited.

Indiscriminate killing.

Decrease.

Prohibition necessary.

THOMAS FRAZER.

Subscribed and sworn to before me this 2d day of May, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of Chad George, scaler.

PELAGIC SEALING.

Chad George, being duly sworn, deposes and says: I was born at Neah Bay, and have lived there all my life; am 27 years old; have been a seal hunter ever since I was a small boy. Have spent three seasons in Bering Sea. For the last eight years I have been engaged as hunter. Spent the three seasons in Bering Sea on the schooners *Alfred Adams* and *Lottie*. We first find the seal off Cape Flattery in January. I followed the seal up the coast into Bering Sea, where we arrived the last of June. Have always used spear for taking seal, and but very few are lost. Most all the seals taken by me were females with pup. Most of the seals killed in Bering Sea have been cows with milk. Have never taken a bull seal off the coast of Washington, but have taken a few farther north. A few young males are taken off the coast of Washington. Can not distinguish the sex of seal in the water, but spear everything that comes near the boat, regardless of sex. Seal have decreased on the coast very fast the last four years. The reason

Experience.

Alfred Adams.
Lottie.

Migration.

Mostly all pregnant females.

Indiscriminate killing.

Decrease.

of the decrease is too much hunting and indiscriminate killing. Have never known or heard of pups being born in the water or anywhere else on the coast outside of the Pribilof Islands. Have never known any fur-seal to haul out on the land or on the coast elsewhere than the Pribilof Islands. Have killed seals 200 miles from the Pribilof Islands that were full of milk. I think that all pelagic sealing should be stopped for five or six years, and the seal would become plenty again.

No pelagic birth.

Do not haul out on land elsewhere than Pribilof Islands.

Protection.

CHAD GEORGE.

Subscribed and sworn to before me this 26th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Norman Hodgson, scaler.

HABITS.

Norman Hodgson, being duly sworn, deposes and saith: I reside at Port Townsend, State of Washington, and am a fur-seal hunter by occupation. I have engaged in that pursuit four seasons, in the years 1887, 1888, 1889, and 1891. I sailed in vessels clearing from Port Townsend two seasons, and in others from Victoria, British Columbia, for two seasons. We first fell in with fur-seals moving north early in the month of February, about 50 miles off the coast in the region of Cape Mendocino, California. They were very scarce then, but as we traveled up the coast we found them more numerous. They were most plentiful off the mouth of the Columbia River in the early part of the month of March. The migratory movement of the fur-seal is from the southward to the northward and westward, following the general trend of the coast of the mainland. The main herd is most compactly massed between 40 and 60 miles off shore, but some of the seals scatter and straggle over an area a long distance on each side of that. The males are generally in advance of the females on the passage north. Females are found in the greatest numbers off Baranoff Island about the middle of the month of May. We followed the main herd up the coast as far as the southwestern end of Kadiak Island, where we usually left them on account of their diminished numbers. We would then go to Sand Point, Popoff Island, about the 25th of June, refit and repair the vessel and take on board fresh supplies, and then start for Bering Sea, which we generally entered about the 10th of July. We remained in the sea until the first part of September, when we would leave it on account of bad weather, returning in a direct line to Puget Sound.

Experience.

Migration.

Time of entering and leaving Bering Sea.

I think the duration of the winter season has a direct bearing on the northward migration of the fur-seal species, as I have observed that they move that way earlier after an open winter than an unusually severe one. The first season and the last two our hunters were all white men; but on my second cruise we carried mostly West Coast Indians from Vancouver Island as hunters. The Indians used spears principally, while the white hunters employed breech-loading firearms (rifles and shotguns) exclusively. Indians using spears recover more than 90 per cent of all fur-seals struck, while the white hunter secures

Nature of winter affects migration.

Outfit of vessels.

on an average about 60 or 65 per cent of all fur-seals shot in the season. With whites, their greatest losses occur during the earlier part of the season. More fur-seals are lost in proportion which are killed by means of a shotgun than with a rifle. Of the seals secured in a season fully 70 per cent are females, and of these more than 60 per cent are pregnant and milking cows. The males taken are about equally divided in numbers between yearlings and bachelors from the ages of 2 to 5 years; bulls are seldom shot. It is impossible to distinguish positively between females and males (other than large bulls) in the water at sea, and no effort is made to do so. Full-powered bulls are readily recognized by their great bulk and darker fur. The killing of fur-seals is therefore absolutely indiscriminate, as the object is to secure all the skins possible, irrespective of sex, age, or condition. All fur-seals sink rapidly after being killed, and females heavy with young go down soonest; a great deal depends on the way a seal is shot, however.

Waste of life.

Greater with firearms.

Mostly females; principally pregnant or milking cows.

Indiscriminate slaughter.

If the seal be shot with the head down, as in the act of diving, its momentum sends it under for a moment or two, when it will quickly rise to the surface and float until the air in its body escapes, which generally occupies anywhere from five to ten minutes. A seal shot with its head up almost always sinks instantly. Fur-seals shot when sleeping occasionally go down at once, but the rule is for them to float for three or four minutes. They should be approached from the leeward, and if shot in the back of the head may almost invariably be recovered. I do not believe it possible for fur-seals to breed or copulate in the water at sea, and never saw nor heard of the action taking place on a patch of floating kelp. I have never seen a young fur-seal pup of the same season's birth in the water at sea nor on a patch of floating kelp, and in fact never knew of their being born anywhere save on a rookery. I have, however, cut open a gravid cow and taken the young one from its mother's womb, alive and crying. I do not believe it possible for a fur-seal pup to be successfully raised unless born and nursed on a rookery. I have seen fur-seals resting on patches of floating kelp at sea, but do not believe they ever haul up for breeding purposes anywhere except on rookeries. I have never heard of, nor have I any knowledge of, any fur-seal rookeries in the North Pacific, other than those on the seal islands of Bering Sea. While in Bering Sea we cruised around the Pribilof Islands in all directions, often coming within view of them, but never landing or making any attempt to do so. The proportion of females taken to males was about 70 per cent, more than two-thirds of these being nursing cows, while the remainder were two-year-olds and yearlings.

Position when shot.

Breeding in water or on kelp impossible.

Born only on rookeries.

Haul up only on rookeries.

Rookeries only on Pribilof Islands.

Proportion of females taken in Bering Sea.

Females feeding.

Decrease.

On first entering the sea an occasional pregnant cow would be taken, but this was uncommon. Of the males taken in the Bering Sea the numbers of yearlings and very young bachelors was about equal; no bulls were ever taken. I observed that nursing cows range from 60 to 80 miles from the Pribilof Islands to feed, and were always most numerous in a southerly and westerly direction from them. After leaving Bering Sea our course was direct to Puget Sound, only scattering specimens of fur-seal life being observed en route; most of these were young males. I have not personally noticed any decrease in the numbers of the

fur-seal species, but think that the constant and indiscriminate slaughter of them must tend largely to that end. It is my belief that in order to preserve fur-seal life from extermination all pelagic hunting should be stopped and Bering Sea closed.

NORMAN HODGSON.

Subscribed and sworn to before me this 18th day of April, 1892.

JOSEPH MURRAY,

United States Treasury Agent.

Deposition of O. Holm, owner of schooner Challenge.

PELAGIC SEALING.

O. Holm, being duly sworn, deposes and says: I reside at Whatcom, Wash. I am part owner of the sealing schooner *Challenge*, and was on board of her last season in Bering Sea. We arrived in the Sea sometime in July. When we first entered Bering Sea we went direct to St. Mathews Islands. As near as I know, seal were taken last year from 60 to 100 miles from the Pribilof Islands. Most all the seals taken in Bering Sea were females with milk. But one old bull was taken, and two young males, but no females with pup. The shotgun was exclusively used by our hunters. I can form no idea as to the amount of seals lost. Some hunters lost more and some less. It ranges all the way from 10 to 75 per cent, according to stories told by hunters. Hunters use no discrimination in shooting seal, but kill everything that comes near the boat. They could not discriminate if they wanted to, as the sex can not be told in the water. I have never known any seal pups to be born on the water, or on the land anywhere, except on the Pribilof Islands. Have never known of seal to haul up on the land anywhere, except on the Pribilof Islands. I think that all pelagic seal hunting should be stopped for a number of years, and give the seal a chance to increase, and if this is not done they will soon become exterminated.

O. HOLM.

Subscribed and sworn to before me this 3d of May, 1892.

A. W. LAVENDER,

United States Treasury Agent.

Deposition of Alf Yohansen, scaler.

PELAGIC SEALING.

Alf Yohansen, being duly sworn, deposes and says: I reside in Seattle; am a hunter by occupation; have hunted seals two seasons; one season on the *San José*, as hunter, and now as hunter on the schooner *Adventure*. Begin to hunt

seal off San Francisco in February, and followed them up the coast as far as Shumakin Islands, which we reached the last of June. The seal all disappeared from there at this time. The shotgun is used altogether for taking seal. About 33 $\frac{1}{3}$ per cent of the seal shot are lost. We use no discrimination in killing everything that comes near the boat. Quite a number of yearlings were taken. About 50 per cent of the seals taken by me have been cows with pup. Never killed but one old bull in my life and that was near Kodiak Island. Took quite a number of young males, I should think two and three year olds. Hunters always shoot a seal in the head when they can do so. If we can't shoot them in the head we shoot them in the chest if possible. What seals we have seen this year are very wild and hard to get at. The cause of their being wild is the indiscriminate shooting of them in the water. I have never seen any pups born in the water, nor have I ever heard of any fur-seal hauling up on the land anywhere in Alaska. I have not seen a fur-seal within 5 miles of the land along the Alaskan coast. I think there should be a closed season established some part of the year, so they could have a rest, as the constant hunting of them in the open waters is soon going to destroy them.

Migration.

Indiscriminate killing.

One-half pregnant females.

No pelagic births.

Protection.

ALF YOHANSEN.

Subscribed and sworn to before me this 12th day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of James E. Lennan, sealer (master).

PELAGIC SEALING.

James E. Lennan, being duly sworn, deposes and saith: I reside at Port Townsend, State of Washington, and am by occupation master and pilot of steam vessels in the waters of the Pacific Ocean coastwise to the Bering Sea. I have had eight-
een years' experience in the waters of Alaska, and am well acquainted with the Northwest Coast from San Francisco to Attu Island, including Bering Sea and its coast line. I have sailed as master of trading and supply vessels for a number of years in Alaska, and in the year 1887 was master of a sealing schooner clearing from Victoria. We had eight canoes and sixteen West coast Indian hunters, who used spears and shot-guns, the former almost entirely, however. Of all the fur-seals struck in the entire season by both imple-
ments more than two-thirds were actually secured, the greater proportion of losses resulting from the use of the shotgun. We left Vancouver Island on the 1st of June, and on the 9th of the same month, when off Baranoff Island, put over the hunting canoes for the first time. We stayed with the main herd of the seals until the 26th of June, following them along the coast to the vicinity of Cape St. Elias, where we left them and stood across to the entrance to Akutan Pass, occasionally taking a few fur-seals.

Experience.

Schooner —, 1887.

Equipment.

Secured more than two-thirds, mostly with spear.

Dates of beginning and ending sealing.

Sealing operations were resumed on July 18 to the southward of the Fox Islands, and on the 23d we entered Bering Sea, where we remained fourteen days, at the end of that time returning to Vancouver Island, which was reached on the 28th of August. We had a good catch, having taken 1,400 skins, more than 1,000 of which we secured on the coast. Of the latter more than 75 per cent were female pelts, and of these about 60 per cent were taken from pregnant cows. In Bering Sea, where we obtained about 400 skins, males and females in about equal numbers were taken. The females were mostly nursing cows, while the males were young ones, between the ages of 2 and 5 years. I examined the stomachs of the fur-seals taken in Bering Sea during the month of July, 1887, and found the greater number to contain Alaska mackerel. This goes to show clearly that at that season of the year this fish constitutes an important item in the diet of the fur-seal. Nursing fur-seal cows were found in July as far as 100 miles to the southward of the Pribilof Islands in Bering Sea, feeding on mackerel as above. It is impossible to distinguish between males and females of the fur-seal species in the water at sea, excepting large bulls, and no effort is made to do so. The object is to get all the marketable skins possible, and the killing is consequently indiscriminate. The pelts of large bulls, whose fur is coarse and of little value, and of yearlings of both sexes, whose skins are too small, not being strictly "marketable" skins, they were not taken.

I have never known of fur-seal pups being born on patches of floating kelp, or in the water, at sea, or anywhere in fact, save on regular rookeries, neither do I believe it possible for them to be reared successfully under any other circumstances. During my travels in Alaskan waters, I have made extensive investigations concerning the existence of fur-seal rookeries, especially about the region of Cooks Inlet and Prince William Sound, where rookeries have been reported to exist, as well as those places where fur-seals are annually observed in the greatest numbers. I am, therefore, positive in my belief that no such fur-seal rookeries, or other places where fur-seals haul out on the land to breed, exist in Alaska with the exception of those on the seal islands of Bering Sea. In my opinion, fur-seal life has not only enormously decreased in numbers since 1886, but it has become greatly scattered, and grown wilder and more timid, forsaking many places where they were formerly to be found at certain seasons of the year engaged in feeding. This I attribute to the large number of vessels engaged in killing fur-seals indiscriminately at sea, and believe that in order to preserve the species from actual and speedy extermination all pelagic hunting should be stopped absolutely, and the waters of Bering Sea closed.

JAMES E. LENNAN.

Subscribed and sworn to before me this 18th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of Thomas Lowe, half-breed Indian sealer.

PELAGIC SEALING.

STATE OF WASHINGTON,

County of Clallam, ss :

Thomas Lowe, being duly sworn, deposes and says: I speak the English language fairly well, and can interpret the Chinook and Indian languages. I am a half-breed Indian and belong to the Challam tribe, and am 30 years of age. I reside on Whidby Island, and am by occupation a hunter and have been engaged in hunting seals for the last eight years. I went to the Bering Sea in 1889, on the schooner *James G. Swan*, and again in 1891 on the schooner *Lottie*. These two seasons are the only ones in which I have been in the Bering Sea. During the other seasons I sealed in the Strait of San Juan de Fuca and along the coast between the Columbia River and the northern end of Vancouver Island. During the first seven years I used the spear in hunting seals. This year I have used the shotgun part of the time. On my last trip this year, when hunting seals off the cape, I caught 10 seals, 5 of which had pups in them; the rest of them were from 1 to 2 years old, part male and part female. I think that fully one-half of the seals caught along the coast are full-grown females with pups in them. We sometimes catch a few medium-sized males, the rest being younger ones, both male and female. I have never killed nor saw a cow in milk, along the coast, nor one that had recently given birth to her young. I know of no place on the coast where they haul out upon the land and breed, nor do I believe they give birth to their young in the water, or on the kelp.

Experience.

James G. Swan, 1889; Lottie, 1891.

Weapons.

One-half of coast catch full-grown pregnant cows.

Do not haul up on coast.

Not born in water or on kelp.

Cows in milk taken from 80 to 100 miles from islands.

Decrease.

In 1889 I hunted in the Bering Sea from 80 to 100 miles off the Pribylov Islands. Two-thirds of our catch were cows in milk. In 1891 I again went to Bering Sea. I think I noticed fewer seals that year than I did in 1889. Seals along the coast are not near as plentiful now as they were when I first began to hunt them. I used to catch 9 or 10 seals in one day; but they are so shy, and so scarce now, that a canoe does not get that many in a month. White hunters, in numbers, commenced to hunt them around Cape Flattery, with guns, about six years ago, and since that time the seals have decreased very rapidly.

THOMAS LOWE.

Subscribed and sworn to before me on this 27th day of April, A. D. 1892.

[L. S.]

CLARENCE P. BROWN,
Notary Public in and for the State of Washington,
Residing at Port Angeles, Wash.

Deposition of N. B. Miller, assistant scientist on board the Albatross.

HABITS.

N. B. Miller, being duly sworn, deposes and saith: I am an assistant in the scientific department of the U. S. Fish Commission steamer *Albatross*. I have made five cruises in Alaskan waters, viz: In the year 1888, along the coast

Experience.

from Unalaska to Middleton Island; in the year 1889, through the inland passages of southeastern Alaska as far north as Chilkoot Inlet; in the year 1890, through the Bristol Bay region and the Aleutian Islands as far west as Umnak Island; in the year 1891, to the Pribilof Islands in Bering Sea; and in the month of April, 1892, in the Gulf of Alaska from Kadiak Island to Prince William Sound, going into Cook Inlet as far as Coal Harbor. I have never seen nor

Rookeries only on the seal islands. heard of any fur-seal rookeries in the northern hemisphere other than those on the several seal islands of Bering Sea; and have never seen fur-seals in great abundance save on and near the Pribilof Islands.

N. B. MILLER.

Subscribed and sworn to before me this 27th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of Nelson T. Oliver, scaler.

PELAGIC SEALING.

Nelson T. Oliver, being duly sworn, deposes and says: I am a native of New Bedford, Mass., and I am 58 years old. I am a resident of Port Townsend, where I have lived for the past twenty years. I followed sea-faring life from the time I was 15 years old until 1888. I accompanied Capt. Jacobs on board the *Mollie Adams*, sealing schooner, in February, 1888. We left Port Townsend in February and cruised along the coast from Grays Harbor to Kyoquot Sound. Our crew were all white men, of whom twelve were hunters armed with shotguns. We returned to Port Townsend in May, and in the three months' cruise we made a catch of 700 seal skins. Not being hunters of experience, our men lost about two-thirds of all the seals shot. Good hunters would not lose to exceed 25 per cent. In the beginning of the season we killed mostly yearling seals, but as the season advances we got almost all mothers in young in the vicinity of Cape Flattery or from the Columbia River to Vancouver. Sex can not be distinguished while the seals are in the water, nor do the hunters try to do so, for they kill everything they can shoot. I am not able to say whether the seal herd is decreasing, but it is reasonable to suppose that where they are hunted and harassed at all times by so many hunters they are sure to be driven from their usual haunts, if not totally destroyed.

NELSON T. OLIVER.

Sworn to and subscribed before me this 2d day of May, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of Z. L. Tanner, lieutenant-commander, U. S. Navy.

PELAGIC SEALING.

STATE OF WASHINGTON.

Port Townsend, Jefferson County, ss:

Z. L. Tanner being duly sworn, deposes and says: I am a lieutenant-commander in the U. S. Navy. I have made five cruises in Alaskan waters in command of the Fish Commission steamer *Albatross*, now temporarily in the service of the United States Revenue Marine, as follows, viz: I left San Francisco July 4, 1888, for the north, via Esquimalt and Departure Bay, where we called for coal. Arriving off the west end of Unalaska Island on the 21st, commenced exploring the coast in the interest of the fisheries, soundings being run from shore to the 100-fathom line. Arrived at Iliuliuk, Unalaska Island, on the 23d, and sailed on the 28th. Explorations extended to the Fox Islands Passes, the Sannaks, and to the Shumagin Islands. Called at Sand Point (or Humboldt Harbor), Eagle Harbor, and Yukon Harbor, in the latter group. Resuming the work of exploration, it was carried to Mitrofan Bay, where we called, and thence to Kadiak Island, stopping at old Harbor and Port Hobron. The extensive banks off the south coast of Kadiak were examined and a call made at St. Paul, the most important settlement in that region. Leaving the latter place, the work of exploration included the Portlock Bank, and thence to Middleton Island, where a landing was made. Soundings were then carried in the direction of the reported position of the Pamplona Rocks, for which an unsuccessful search was made. Thence we proceeded to Departure Bay, Puget Sound, the coasts of Washington and Oregon, and to San Francisco, arriving October 21.

I left San Francisco on the 21st of May, 1889, and was engaged in deep sea exploration on the coasts of Oregon and Washington until July 7, then made a trip to southeastern Alaska through the Inland Passages, visiting Fort Tongass, New Metlahcatlah (Port Chester), Karta Bay, Port Wrangell, Sitka, Pavlof Harbor, Glacier Bay, Hoonyah, Chilkat, Chilkoot and Juneau. Returned to Tacoma on July 28th, calling at Victoria, Port Townsend and Seattle en route. I sailed for the North on the 5th of May, 1890, via Departure Bay, British Columbia, and commenced the examination of the region from the Sannaks to Unimak Pass on the 21st, arriving in Unalaska on the 23d. The work of the season included the exploration of the northern coasts of Unalaska, Unimak, the Alaska Peninsula, and the northern shores of Bristol Bay to the Kuskowim River. The Slime Bank and Baird Bank were developed in Bristol Bay. A survey was made of the lower Nushagak River, the entrance to Port Moller, and Herendeen Bay. Deep-sea exploration was extended to 58° 43' north and longitude 175° 30' west, passing near the 100-fathom line, 70 miles to the westward of the Pribilofs. Left Bering Sea August 26th, arriving in San Francisco September 26th, via Departure Bay, Port Townsend, and the California coast, where we were engaged in deep-sea exploration from the 21st to the 25th. I sailed again for Bering Sea July 16, 1891, having on board the United States Commissioners to the Seal Islands. We arrived at Unalaska July 25th, and were at the Pribilof Islands from the 28th to August 10th. Left the sea on the 13th of August, and reached San Francisco September 15th, via Departure Bay, Esquimalt and Puget Sound. On the 19th day of

Sailed for Bering
Sea with United
States Commissioners

March, 1892, I sailed from San Francisco for Alaskan waters, via Port Townsend and Seattle.

The cruise had special reference to the migration of the fur-seal herd and their relation to the localities visited by us; in other words, we were to ascertain whether there were fur-seal rookeries in Cooks Inlet or Prince William Sound, whether they hauled out or attempted to haul out there, or, in fact, anywhere in Alaska outside of the Pribilof Islands. The following places were visited in the order named: Port Graham, with its tributary settlement of Fort Alexander, having a population of 120, all Aleuts except one white man, the agent of the Alaska Commercial Company. The men are hunters. Chesloknu Bay, with its village of Soldovoi, having a mixed population of Aleuts and Kenai Indians, numbering 103, and four white men. The natives are hunters. Coal Point, population 11, all white, occupied in holding possession of coal claims. Some of them having had many years experience in the Territory, were able to give much valuable testimony. St. Paul, Kadiak, population 380, 65 of whom are white, the remainder Creoles and Aleuts. The native men and nearly all of the whites are hunters. Wood Island, near St. Paul, has a population of 193, including three whites, the natives being mostly hunters. Owing to a severe winter and late spring, the men were still at home, and we were able to procure affidavits from 35 whites and 55 native hunters, who had practical knowledge of the subject in the regions in which they were in the habit of hunting. The regular work of the *Albatross* is deep-sea exploration, the discovery and development of fishing grounds, and, not infrequently, purely scientific investigation in normal ocean depths far outside of the range of economic species.

I have been engaged in this work nearly fourteen years, during which time it has been a part of my duty to acquire information concerning the seal and its life. This has been done not only from personal experience and observations, but by questioning practical men, such as intelligent mariners, fishermen, and hunters. Pelagic sealing has been a frequent subject of conversation and argument with me since my first northern cruise in 1888, and I have reached the following conclusions:

Pelagic sealing
wasteful.

First. Pelagic sealing is wasteful, as a large percentage of seals killed are lost. Opinions on that point, varying from 30 to 70 per cent.

Sex indistinguish-
able in water. Indis-
criminate killing.

Second. The sexes can not be distinguished in the water, except old males, and both sexes and all sizes are killed indiscriminately.

Third. Of the
Mostly pregnant fe-
males taken.

Third. Of the seals killed, from 60 to 70 per cent are females, which during their northerly migration are heavy with young, slow of movement, and require an extra amount of rest and sleep, thus largely increasing their liability to suc-

cessful attack.

Death of pups.

Fourth. The female killed, the death of the unborn pup follows, entailing a double loss.

Fifth. Seals killed in Bering Sea after the birth of the pups are largely mother seals, and the farther they are found from the islands the greater the percentage will be. The reason

Females feeding.

for this seeming paradox is very simple. The young males, having no family responsibilities, can afford to hunt nearer home, where food can be found if sufficient time is devoted to the search. The mother does not leave her young except when necessity compels her to seek food for

its sustenance. She can not afford to waste time on feeding grounds already occupied by younger and more active feeders; hence she makes the best of her way to richer fields, farther away, gorges herself with food, then seeks rest and a quiet nap on the surface. Under these conditions she sleeps soundly, and becomes an easy victim to the watchful hunter.

Females sleeping when killed.

Sixth. A double waste occurs when the mother seal is killed, as the pup will surely starve to death. A mother seal will give sustenance to no pup but her own. I saw sad evidences of this waste on St. Paul Island last season, where large numbers of pups were lying about the rookeries, where they had died of starvation.

Females nurse their own pups only.

Dead pups.

Seventh. The number of seals on the Pribilof Islands is decreasing. I saw positive proof of this on St. Paul Island last season.

Decrease.

Eighth. Pups can not swim at birth, hence the female can not give birth to her young in the water without sacrificing its life. I have seen thousands of pups learning to swim at the rookeries on St. Paul, and their early efforts were quite as awkward as those of a boy when taking his first dip. Their trouble seems to be to keep their heads above water.

Pups not born in water.

Ninth. The present practice in pelagic sealing is to shoot them from a boat with a shotgun and secure them with a short-handled gaff. If killed instantly, they are apt to sink, unless picked up immediately. If wounded, they may be gaffed in their "flurry."

Shooting seals.

Many sink.

Tenth. Pelagic sealing should be suppressed as far as practicable. A protected zone around the islands, extending 100 miles from them would not be effective, even if the limits were respected.

Protection necessary.

Eleventh. The preservation of the rookeries requires the suppression of pelagic sealing, at least in Bering Sea, and in the immediate vicinity of the passes.

Suppression of pelagic sealing necessary.

Z. L. TANNER,

Lieutenant-Commander, U. S. Navy.

Sworn and subscribed before me, James G. Swan, a notary public in and for the State of Washington, residing at Port Townsend, this 9th day of May, A. D. 1892.

[SEAL.]

JAMES G. SWAN,
Notary Public.

TESTIMONY TAKEN AMONG THE MAKAH INDIANS.

Deposition of Bowa-chup, Makah Indian, sealer.

PELAGIC SEALING.

STATE OF WASHINGTON,
County of Clallam, ss:

Bowa-chup, being duly sworn, deposes and says: I am a native Makah Indian, and reside on the reservation at Neah Bay, State of Washington, United States of America, and am about 40 years of age. I have been engaged in seal-hunting ever since I was a boy. Until about ten or twelve years ago I used to seal along the coast in large canoes from 10 to 18 miles from Cape Flattery and in the Straits of San Juan de Fuca. At first I was a paddler, and afterwards I became a spearman. In those days there were a great many seals in the water, and they would go in bands of 15 or 20 together. About five or six years ago I commenced to hunt in smaller canoes that were taken out to sea in schooners. I hunted with spears all of the time. I have never killed any full-grown cows on the coast that did not have pups in them, and I have hunted all the way from the Columbia River to Barclay Sound. I do not know of any place along the coast where seals haul out upon the land, nor have I ever heard of such

Pelagic birth impossible.

a place, and I have never killed any full-grown cows who were in milk. Seals do not give birth to their young in the water nor on the kelp; if they did they would be drowned and die.

I was in the Bering Sea in 1889 on the schooner *James G. Swan*, but did not use shotguns. Most all the seals we caught were cows giving milk, and I have never been there since. All the seals along the coast go to the Pribilof Islands to breed. The cows leave here in June and the yearlings sometime in the middle of July. Seals were very plenty in the straits and around the cape until about six years ago, when the white hunters came in schooners and with shotguns and commenced to kill them all off, and now there is none

James G. Swan, 1889.
Rookeries only at Pribilof Islands.

Leave coast in June and July.

Decrease.

in the straits, and we can not get but one or two where we used to get eight or ten. They are very shy and wild and are decreasing very rapidly. A good many of the seals that I have caught in the last three or four years have shot in them, and some have been badly wounded. I have seen white hunters shooting

seals out in the sea, and they lose a great many more than they get, and we sometimes capture some of those that they have badly wounded.

BOWA-CHUP (his x mark).

Witnesses:

JOHN P. MCGLINN.

C. E. GAY.

Subscribed and sworn to before me on this 27th day of April, A. D. 1892.

[SEAL.]

CLARENCE P. BROWN,

Notary Public in and for the State of Washington.

Deposition of Peter Brown, Makah Indian chief, scaler (master).

PELAGIC SEALING.

STATE OF WASHINGTON,

County of Clallam, ss:

Peter Brown, being duly sworn, deposes and says: I am the native chief of the Makah Indians; am about 55 years old, and reside on the Neah Bay Reservation, in the County of Clallam and State of Washington, United States of America. I am acquainted with the habits of my people and the methods adopted by them in hunting the fur-seal. I am the master and one-third owner of the fishing schooner *James G. Swan*. I have been engaged in hunting seals with spears, more or less, all of my life. Formerly, in the winter time, used to hunt them in the Straits of San Juan de Fuca, and in the spring and summer time we hunted them in canoes and with spears from 10 to 30 miles off and around Cape Flattery. About ten or twelve years ago we commenced carrying our canoes on little schooners and followed up along the coast towards Kadiak. I have been a part owner in a schooner for about seven years, and have owned the *James G. Swan* for about three years. She is about 59 tons burden. The other schooner was not so large. My people commenced using guns in seal-hunting about three years ago, but they always carried spears, and but few of them ever use guns unless employed to do so by white men. About six or seven years ago I commenced to notice a decrease in the number of seals arriving in the straits and around the cape.

Indian methods.
Experience.

James G. Swan.

Firearms replacing
spears in 1889.

Decrease.

I think more than one-half of all the seals caught on the coast are cows that have pups in them. Cows caught in the latter part of May and June have black pups in them, which we sometimes cut out and skin. I hunted in Bering Sea in 1889 (that being the only year I ever went to that sea) and hunted seals with spears about 70 miles southwest off the islands, and our catch was nearly all cows that had given birth to their young and had milk in their teats. In hunting with the spear we don't lose many that we hit. I never hunted with guns, but have caught a great many seals that had shot in them. I know of no place along the coast where seals haul out upon the land; nor have I ever heard of such place; nor neither does any of my people know of such a place.

Mostly pregnant females.

1889.

No hauling out on coast.

Cow seals can not give birth to their young in the water, or on the kelp and have them live. I have never seen, nor known of any pups, along the coast, that were born in the same year, and I have never known any cow seals to be caught along the coast that had given birth to their young, and in whose breast there was milk, and it is very seldom that we catch a full-grown cow that does not have a pup in her.

White hunters came in here about five or six years ago and commenced shooting the seals with guns, since which time they have been rapidly decreasing, and are becoming very wild. When we hunt seals with spears we creep upon them while asleep on the water, and spear them. A few years ago my people would catch from eight to ten thousand seals each year, now we get only about one thousand or less. I can not tell the difference between the male and female seal while in the water, excepting it be an old bull.

In early times none of my tribe ever went any farther out to sea than from 10 to 30 miles off Cape Flattery, and close inshore a few miles up and down the coast. They had no other way of hunting, except to go from here in canoes. About fifteen years ago the post trader induced some of them to put their canoes on board of a small schooner and go out from 50 to 75 miles offshore, and to hunt along the coast from Columbia River to Barclay Sound. In the last five or six years some of my tribe have bought and now own four little schooners, and use them to carry their canoes and provisions when they go any distance from home. About seventeen of my people have been in the Bering Sea and, with the possible exception of two or three, none of them were ever there before 1887.

In 1887 the British schooner *Alfred Adams*, from Victoria, British Columbia, came here and employed some of my tribe to go to the Bering Sea hunting seals, and the schooner *Lottie*, owned by the Indians, also went from here in that year.

In 1889 and 1891 some of my people went on schooners, as hunters, to Bering Sea. At no other times have any of them been in those waters. The fur-seals appear off Cape Flattery and in the Straits of San Juan de Fuca about the last of December and go and come until about the middle of June, but yearlings and 2-year olds remain considerably later. Seals used to be very numerous along the coast about Cape Flattery, and no decrease was ever noticed in their numbers until soon after the white hunters came around here—about seven years ago, and commenced shooting them. Since that time they have decreased fast and have become very shy.

I think they will all be killed off if they keep hunting them with guns. The spears with which my people hunt seals almost exclusively is similar to the harpoon used by us in killing whales, only it is smaller. It has a handle about 14 feet long, that will come off when the harpoon sinks into the seal, and the iron head is secured to the boat with a line about 70 feet long. In throwing the spear we use both hands, and if we hit are almost sure to get him.

Witness:
JOHN P. McGLINN.
C. E. GAY.

his
PETER X BROWN.
mark.

Subscribed and sworn to before me on this 27th day of April, A. D. 1892.

[SEAL.]

CLARENCE P. BROWN,
Notary Public in and for the State of Washington.

Deposition of Landis Callapa, Makah Indian, sealer.

PELAGIC SEALING.

STATE OF WASHINGTON,
County of Clallam, ss :

Landis Callapa, being duly sworn, deposes and says: I am about 45 years old, and am a native Makah Indian. I reside on the reservation at the Neah Bay Agency, county of Clallam, State of Washington, United States of America, and am, by occupation, a hunter and a fisherman. I have been engaged in hunting seals all my life, and have always used the spear, and went in canoes. Formerly we went around the cape in canoes, but for the last fifteen years I have frequently gone out on small schooners, from 10 to 80 miles around the cape, up and down the coast from 100 to 200 miles. We take our canoes on the vessel and use them after we get to the sealing grounds. On my last sealing cruise this spring we caught five seals; two of them were females and had pups in them; three of them were young and smaller seals and had black whiskers. None but full-grown cows have white whiskers, but young cows and young bulls have black whiskers. About half of all the seals captured along the coast have white whiskers, and are cows with pups in them. Most all full-grown cows that are caught have pups in them. Once, late in the season, I caught a full-grown barren cow with white whiskers. I can not distinguish male seals from female at a distance in the water, unless it be an old bull with a long wig.

Experience.

Coast sealing.

Mostly pregnant females.

No hauling out on coast.

None born on kelp.

Decrease.

Appear on coast latter part of December.

I know of no place where seals haul out upon the land to breed on this coast; nor do I think that they give birth to their young upon the kelp. Once I killed a cow in milk, the only one of the kind I have ever known being caught on the coast. Seals used to be very plentiful around the cape and in the Strait of San Juan de Fuca, but they have been rapidly decreasing during the last five or six years. We were out sealing a short time ago and captured but five seals. A few years ago, during the same period of time, we would have caught about sixty. They are wilder now and more difficult to catch, and will soon be destroyed if guns are used in hunting them. Seals appear off this coast the latter part of December, and are gone by the middle of July. Cows appear to leave earlier than the younger ones. I scarcely ever see an old bull along the coast, and it is seldom we ever catch one.

Witness:

JOHN P. MCGLINN.

C. E. GAY.

LANDIS ^{his} × CALLAPA.
mark.

Subscribed and sworn to before me on this 27th day of April, A. D. 1892.

[SEAL.]

CLARENCE P. BROWN,
Notary Public in and for the State of Washington.

Deposition of Circus Jim, Makah Indian, sealer.

PELAGIC SEALING.

STATE OF WASHINGTON,
County of Clallam, ss :

Circus Jim, being duly sworn, deposes and says: I am about 35 years old, and am a native Makah Indian. I reside on the Indian reservation at Neah Bay, in Clallam County, State of Washington, United States of America.

Experience.

I am by occupation a hunter and fisherman. I have been engaged at hunting seals for about seventeen years. In early times, and until within the last ten years, I hunted seals with spears in canoes. During the last ten years I have been sealing up and down the coast in schooners, but used spears all of the time. When we used canoes exclusively I used to hunt and capture seals about 30 miles in the Straits of San Juan de Fuca. Seals used to be plentiful in the straits, but for

Decrease.

the last five or six years they have become very scarce in the straits, so that now we can not find any more there. We used to hunt seals in canoes for about 20 miles out in the ocean, off Cape Flattery and up and down the coast, between Greys Harbor and Barclay Sound. Seals were very plentiful along the coast six or eight years ago. I used to be out on the water hunting seals in a canoe for a couple of days at a time, if the weather was fine. Three Indians would go in one canoe. One would handle the spear, the other two would paddle and steer the boat. I was the spearman. Usually we found several seals at a time asleep on the water and would creep upon them, sometimes as near as 20 feet, but more frequently not closer than

Success with the spear.

40 to 50 feet. I would then throw the spear at them and almost always secure all that I hit. Very rarely I would hit and secure two seals at a time. I would then get a seal on each barb of the spear.

We use smaller canoes now since we began to use schooners in which to carry our canoes and hunters to the sealing waters, and but two Indians go in one of these smaller canoes. A great many years ago we used to catch about one-half cows and one-half young seals. I never caught

Caught no milking cows along coast.

James G. Swan, 1889.

Lottie, 1891.

Mostly milking seals caught in Bering Sea.

James G. Swan, 1892.

Fifty per cent pregnant cows.

Do not haul upon coast.

Pups not born in water or on kelp.

any seals along the coast that had given birth to their young and that had milk in their breasts. I never captured any barren cows. I first went sealing in the Bering Sea in the *James G. Swan* in 1889, and went again on the schooner *Lottie* in 1891. While in the sea I caught a great many cow seals that were giving milk. Most all the seals we caught in the sea were giving milk. I have been out sealing this spring along the coast in the schooner *James G. Swan*. We have been out three times. Our schooner carried 15 canoes, each one manned by two Indians, and we secured ten seals in all, five of which had pups in them. I know this because I saw the pups when we cut the carcasses open. We dry the meat of the seal and use it for food. The other five seals were smaller and probably male and female. Seals do not haul out on the land along the coast to breed, nor do they give birth to their young on the water, or on the kelp. I never caught any little black pups along the coast. I used to catch a great many gray ones on the coast, but caught but one this year. We hunt

the seal not only for its fur, but we use every part of it. We eat the meat, make oil out of the blubber, and after cleaning the stomach use it for holding the oil. Seals are now very scarce and wild along the coast. I believe the cause of this is that white hunters have been hunting them so much with guns. If so much shooting at seals is not stopped they will soon be all gone.

Decrease; cause.

Prohibition necessary.

his
CIRCUS X JIM.
mark.

Witnesses:

JOHN P. MCGLINN.

C. E. GAY.

Subscribed and sworn to before me this 27th day of April, A. D. 1892.

[SEAL.]

CLARENCE P. BROWN,

Notary Public in and for the State of Washington.

Deposition of James Claplanhoo, Makah Indian, sealer (master).

PELAGIC SEALING.

STATE OF WASHINGTON,

County of Clallam, ss :

James Claplanhoo, being duly sworn, deposes and says: I am about 43 years old, and a native Makah Indian. I reside on the Neah Bay Reservation, county of Clallam, State of Washington, United States of America. I am, by occupation, a hunter and fisherman. I own the schooner *Lottie*, which is of about 28 tons burden. I bought the said schooner about seven years ago. I have been engaged in hunting seals about twenty-four years. In my early years I hunted seals in canoes and with spears in the Strait of San Juan de Fuca, and about 80 miles off Cape Flattery. I killed seals for food and for their skins, getting about \$3 apiece for each skin. About fifteen years ago Willie Gallick, who had a trading post here, had three or four schooners, and employed Indians to go sealing and sail his vessels. They would put their canoes and spears on board the schooners and go out and hunt about 20 or 30 miles off the coast, as far south as the Columbia River and north to Barclay Sound. A few years later some of the Indians owned, or partly, an interest in the schooners. About six years ago the British schooner *Alfred Adams* came here, and her master engaged Indian hunters to go sealing in the Bering Sea. Until three or four years ago I used nothing but spears in hunting seals; now I sometimes use a gun. Seals generally appear off Cape Flattery about the 20th of December, but during the last four or five years there have not been near as many coming to the strait or on the coast as in former years. There are a few in the strait, but we do not hunt them now, and can not secure more than one-sixth as many in a season as we used to a few years ago.

Experience.

Alfred Adams, 1886.

Seal appear off Cape Flattery December 20.

Decrease.

In spearing seals I use a harpoon with either one or two barbs, similar, but smaller than that used in taking whales. The harpoon has a handle about 12 or 14 feet long, and a strong line, about 70 feet long is attached to the barb, the other end of which is fastened to the canoe. We throw the spear at a seal with both hands, and when the spear or

harpoon hits a seal the barb becomes detached from the handle but is securely fastened in the body. The handle floats upon the water and is afterwards secured and is used again. I lose but very few seals that I hit with the harpoon. When

Success with the spear.

white men or traders began coming in here with schooners they offered us large inducements to go cruising for seals and we commenced going farther from land but did not notice any decrease in the number of seals each year, until about six or seven years ago, when vessels with white hunters and armed with shotguns began to appear in considerable numbers off the coast. Since that time the decrease has been very rapid. We often take seals that have been wounded with a rifle or shotgun, and in their bodies there are a large number of shot. When sealing along the coast it is seldom that I have seen or captured an old bull. I have caught quite a large number of gray pups or yearlings, and they are about equally male and female. About

About half caught, pregnant females.

Appear about January 1 near Cape Flattery.

one-half of all seals that I have caught in the strait or on the coast were full-grown cows with pups in them, and I have never caught a full-grown barren cow, nor one that had given birth to her young, and was in milk. About the 1st of January seals begin to appear around the cape and slowly make their way north and are gone by the middle of July. The grown cows are the first to go, and leave before the middle of June. Young seals remain to the last. In hunting with guns, I usually get about two out of five

Waste of life.

that I shoot; sometimes I would wound one and it would get away and it would probably die; sometimes I would kill the seal dead and it would sink in the water almost as quickly as a rock, and unless we were quick to reach it, it would be lost. Sometimes we fish them up out of the water with a gaff hook, and would secure a few that way.

In 1887, about the 1st of June, I went into the Bering Sea in my own schooner, the *Lottie*, and hunted about 60 miles off the islands and secured about 700 seals, most all of which were cows in milk. These cows had milk in their breasts, but had no pups in them. I returned to the Bering Sea in my own boat, the *Lottie*, in 1889, and also in 1891, and sealed all the way from 100 to 180 miles from the St. George and St. Paul islands. The catch of these two years were of about the same character as those caught in 1887, and

Mostly milking females.

Rookeries only on Pribilof Islands.

Pelagic birth unknown.

were mostly females that had given birth to their young and were in milk. I know of no place along the coast where seals haul out upon the land, nor do I think that they give birth to their young in the water or on the kelp. I am acquainted with the different tribes of Indians along the coast of Vancouver Island, and have never heard them say that seals haul out upon the land on the coast or in Barclay Sound. I am unable to tell a male seal from a female while in the water, unless it be an old bull with a long wig. Seals used to be very plentiful, and I never noticed any decrease in their number until white hunters com-

Decrease.

menced coming here and killing them with guns, about six or seven years ago. Since that they have decreased very rapidly and have got very shy. Our tribe used to have no difficulty in catching 8,000 to 10,000 seals, and now we can not get a thousand. We eat the meat of the seal and depend largely upon it for our subsistence.

JAMES CLAPLANHO.

Subscribed and sworn to before me on this 27th day of April, A. D. 1892.

[SEAL.]

CLARENCE P. BROWN,
Notary Public in and for the State of Washington.

Deposition of Frank Davis, Makah Indian, sealer.

PELAGIC SEALING.

STATE OF WASHINGTON,
County of Clallam, ss :

Frank Davis, being duly sworn, deposes and says: I am about 66 years old, a native Indian of the Makah tribe, reside on the Neah Bay Reservation, in the County of Clallam, State of Washington, and my occupation is that of a hunter and fisherman. I have been engaged in seal-hunting for about seventeen years. I have always hunted in canoes and with spears, and years ago would kill a great many seals. I was up in the Bering Sea sealing in 1889 and have not been there since. All the other years I have been seal-hunting along the coast, between Grays Harbor and Barclay Sound. A few years ago seals were very plentiful in the Straits of San Juan de Fuca. It is not now so. They are so scarce in the straits that we do not hunt for them there any more. In all of my experience in seal-
Experience
In Bering Sea in 1889.
Decrease.
Mostly milking cows.

The seals first appear off the cape about Christmas, and I have caught young seals as late as July. Seals do not haul out upon the land along the coast and breed; nor do they give birth to their young in the water nor on the kelp. One time, when hunting along the coast with a spear, our canoe took 100 seals in five days, but we can not catch as many now. They are very shy and wild, so that if we get two or three now in five days we would be doing very well. I have caught only eight seals this year. Before the white man came here to hunt seals with the shotgun and rifle, five or six years ago, they were not so wild as they are now, and by this time in a year I would have had a hundred or more seals. When I get seals now a great many have shot in them, a thing I never saw before until about six or seven years ago.

his
FRANK X DAVIS.
mark.

Witness:

JOHN P. McGLINN.
C. E. GAY.

Subscribed and sworn to before me on this 27th day of April, A. D. 1892.

[SEAL.]

CLARENCE P. BROWN,
Notary Public in and for the State of Washington.

Deposition of Jeff Davis, Makah Indian, sealer.

PELAGIC SEALING.

STATE OF WASHINGTON,
County of Clallam, ss:

Jeff Davis, being duly sworn, deposes and says: I am about 24 years of age, and am a native Makah Indian, and reside on the reservation at the Neah Bay Agency, in the county of Clallam, State of Washington, United States of America. I am a hunter and fisherman.

Experience.

Since 1876 I have been engaged in hunting seals most of the time in large canoes, each canoe carrying three Indians, who used spears. I sat in the middle of the canoe and was known as the paddler. The one who sat in the stern steered the canoe, and the one in the bow was the hunter. Years ago, in the winter time, seals were plenty in the Straits of San Juan de Fuca, and I have hunted and helped to catch them up the Straits as far as Pysht, which is about 37 miles from Cape Flattery. Of later years they have quit coming in the straits and we do not hunt for them there any more. I also used to hunt seals in canoes up and down the coast from Cape Flattery. In those days there were a great many seals along the coast. They traveled in little herds of from ten to fifteen each, and we could sometimes creep up on them when they were asleep on the water and spear one or two before they got away.

Success with the spear.

We usually secured all that we hit with the spear. About 10 or 12 years ago we began to hunt seals in schooners, and ventured farther out in the ocean and sealed for greater distances up and down the coast. I have sealed as far south as the Columbia River and as far up the coast as the north end of Vancouver Island.

I have hunted seals in the Bering Sea for one season only. I went there in the schooner *James G. Swan* in 1889. Most of the seals that we captured there that season were cows giving milk. I do not know where their pups were. I never caught any gray pups in the sea. I have been out sealing on the coast this spring in a schooner that carried ten canoes, with two hunters to each canoe.

James G. Swan, 1889.

Mostly milking females.

We were out three days and caught 5 seals. If we had been out that long six or eight years ago with the same crew, we would have taken between 60 and 100 seals. Seals are wild and

Decrease.

shy now, and have become very scarce. I think the reason for this is that they have been hunted so much by white hunters who use firearms. I have never killed any cows giving milk along the coast, and I do not think there is a place along the coast

Do not haul up on coast.

No pelagic birth.

where seals haul out and breed. They do not give birth to their young in the water or on the kelp. Most of the seals caught on the coast are females with pups in them, the balance are mostly young seals, both male and female. I never saw a black pup on the coast, and this year I have seen but very few yearlings.

JEFF DAVIS.

Subscribed and sworn to before me on this 27th day of April, A. D. 1892.

[SEAL.]

CLARENCE P. BROWN,
Notary Public in and for the State of Washington.

Deposition of Ellabush, Makah Indian, sealer.

PELAGIC SEALING.

STATE OF WASHINGTON,

County of Clallam, ss :

Ellabush, being duly sworn, deposes and says: I am about 30 years of age, and am a native Makah Indian, and reside on the Neah Bay Reservation, in the county of Clallam, State of Washington, United States of America. I commenced sealing in canoes along the coast and in the Straits of San Juan de Fuca, about fifteen years ago, and have always hunted seals with spears until recently. Three Indians usually go with each canoe. About ten years ago I went hunting in the schooner *Mist*, owned by a white man. We cruised for seals along the coast, between the Columbia River and Barclay Sound. I have caught 9 seals this year, 5 of which had pups in them; the small ones did not have pups in them. The seals appear in the Straits of San Juan de Fuca the latter part of December, and are all gone by the middle of July. In the months of January and February the pups in the cows are so small that you will not notice them unless you cut the belly open. All full-grown cows that I have killed along the coast had pups in them, and have never killed but one that had given birth to their young and were in milk, and have no recollection of having killed a barren cow. The younger ones do not have pups in them, and are about one-half male and one-half female. The full-grown cows leave this vicinity for the north earlier than the younger ones do. I catch more young seals in May and June than I do earlier in the season. Seals do not haul out upon the land along the coast and give birth to their young. I have never known pups to be born in the water nor on the kelp.

About two years ago I begun to hunt with guns, but a spear. Since I have been hunting with guns I lose a great many seals that I shoot. I kill some dead and they sink like a rock. Some that I shoot are wounded and get away and probably die. I have caught a good many seals that had shot in them. Seals are not so plentiful now as they were a few years ago. They began to decrease about five or six years ago. A good many years ago I used to capture seals in the Straits of San Juan de Fuca, but of late years, since so many schooners and white men have come around here shooting with guns, that only a few come in here and we do not hunt in the straits any more. I used to catch forty or fifty seals in one day, and now if I get six or seven I would have great luck. I have to go a long distance to get seals now. Seals are wild and afraid of an Indian. They have become so since the white man and the trader began to shoot them with shotguns and rifles. In a short time there will be no seals left for the Indian to kill with the spear. In hunting with the spear I get almost all the seals that I hit. Once, in the month of June, I caught a seal that had a pup in it. I carefully cut the pup out of its mother

Experience.

Mist, in 1882.

Appear in Straits of San Juan de Fuca latter part of December, and are all gone by middle of July.

All full-grown cows with pup.

Do not haul up on coast.

No pelagic birth.

always carried

Waste of life with gun.

Decrease.

Success with the spear.

Pup can not swim. and placed it in the water and it drowned. I have often cut pups out of the mother seal and tried to rear them, but in two or three days it would sicken and die.

ELLABUSH (his × mark).

Witness:

JOHN P. McGLINN.

C. E. GAY.

Subscribed and sworn to before me on the 27th day of April, A. D. 1892.

[SEAL.]

CLARENCE P. BROWN,

Notary Public in and for the State of Washington.

Deposition of Alfred Irving, Makah Indian, sealer (master).

PELAGIC SEALING.

STATE OF WASHINGTON,

County of Clallam, ss :

Alferd Irving, being duly sworn, deposes and says: I am about 46 years old, and am a native Makah Indian, and reside on the Neah Bay Reservation, State of Washington, United States of America. My occupation is hunting and fishing, and I am one of the headmen of my tribe. I am master and one-half owner of the schooner *Mary Parker*. I have been engaged in hunting seals ever since I was old enough. Formerly my tribe hunted in canoes and used spears exclusively, but in the last two years a few of them have used shotguns. Previous to about ten years ago we seldom went more than 20 miles out to sea and sealed about that distance off Cape Flattery. Since that time some of our tribe have owned three or four small schooners, and those that go out in them put their canoes and spears on the schooners and are carried from 50 to 75 miles off Cape Flattery and along the coast from Columbia River to Barclay Sound. In the earlier years when I went hunting we would not go out of the Straits of San Juan de Fuca during the winter months and early in the spring. The seals commence to appear in the Straits of San Juan de Fuca about the 1st of January or the last of December and come and go to the middle of July. The general course seemed to be to the north, and by the middle of June the grown cows were most all gone, but the younger ones used to be quite plentiful until about the middle of July, when they would also disappear.

Experience.

Appear in Straits of San Juan de Fuca about 1st of January, and disappear about middle of July.

Success with the spear.

Waste of life.

Majority milking females in Bering Sea.

I have always used spears in hunting seals, and seldom wounded or hit one that I did not get, until in 1891, which year, and the only one, I went to Bering Sea and used the shotgun part of the time. I found in the use of the shotgun that a great many of the seals that were killed or wounded were lost, and that those that I secured in the Bering Sea were nearly all females that had given birth to their young and were in milk. Our vessel captured about 460 seals at a distance of about 100 miles from the Pribylov Islands, most all of which were cows in milk. We used shotguns and secured about

two seals out of five that we shot. About one-half of those caught along the coast were full-grown cows with pups in them, a few were medium-sized males, and the rest were younger seals of both sexes. I have never caught a full-grown cow in the straits or along the coast that did not have a pup in her. I am intimately acquainted with the coast from here to Barclay Sound, and I know of no place, nor have not heard of any place, where seals come to land, nor neither do I believe it to be possible for them to have their young in the water or on the kelp and have their pups live. Seals are not as plentiful now as they were before white men commenced hunting them with guns around here some six or seven years ago. They are more shy now and it is much more difficult for the hunters to creep up and spear them than it was a few years ago. If they keep on killing them with the guns there will be none left in a little while.

Majority pregnant females along coast.

Do not haul up on coast.

Pelagic birth impossible.

Decrease.

His
ALFRED X IRVING.
mark.

Witness:

JOHN P. MCGLINN.

C. E. GAY.

Subscribed and sworn to before me on this 27th day of April, A. D. 1892.

[SEAL.]

CLARENCE P. BROWN,
Notary Public in and for the State of Washington.

Deposition of Ishka, Makah Indian, sealer.

PELAGIC SEALING

STATE OF WASHINGTON,

County of Clallam, ss:

Ishka, being duly sworn, deposes and says: My age is about 60 years. I am a native Indian of the Makah tribe, and reside on the reservation at the Neah Bay Agency, in the State of Washington, United States of America. I am by occupation a fisherman. I have hunted seals along the coast ever since I was old enough to do so. I have always used spears while hunting the seals in canoes. I have hunted seals in the Straits of San Juan de Fuca, 40 or 50 miles off Cape Flattery, until about seven years ago; since then I have frequently gone as far south as the Columbia River and to the northward to the far end of Vancouver Island, and fully one-half of the seals we catch are cows with young in them. I have been outsealing once this year and we captured three seals; one of which, in dividing them up, became mine. The one I got was a full-grown cow with a pup in it. In the months of January and February the pups in the cows are so small that one will not notice whether the cow is pregnant or not unless he cuts her open, but later on in the season it may be observed without cutting them open. I have never killed a cow on the coast that had given birth to her pup and was giving milk, nor have I ever seen a pup born the same year. Seals do not haul out upon the land along the coast and breed, nor do they give birth to their young in the

Experience.

Fifty per cent pregnant cows.

Do not haul up on coast.
Not born in water or on kelp.

water or upon the kelp. I think a pup born in the water or upon kelp would sink and die. Years ago we could see seals all over the water. They are not so plentiful now. They have been growing less and less ever since the white man came in and began to hunt them with guns, about six or seven years ago, and so many vessels went into the business.

ISHKA (his x mark).

Witness:

JOHN P. MCGLINN.

C. E. GAY.

Subscribed and sworn to before me on this 27th day of April, A. D. 1892.

[SEAL.]

CLARENCE P. BROWN,
Notary Public in and for the State of Washington.

Deposition of Selwish Johnson, Makah Indian, scaler.

PELAGIC SEALING.

STATE OF WASHINGTON,
County of Clallam, ss:

Selwish Johnson, being duly sworn, deposes and says: I am about 30 years old; am a native Makah Indian, and reside at Neah Bay, on the Indian Reservation, State of Washington, United States of America. My occupation is that of hunting and fishing. I have been engaged in catching seals ever since I was old enough to do so, and have always hunted with a spear. In former years we used to hunt in the Straits of San Juan de Fuca, and in the summer around Cape Flattery, but for the last few years we have had to go farther to get them, and now we hunt from Columbia River to Barclay Sound. We put our canoes and spears on board of a schooner, and go out from 10 to 60 miles off Cape Flattery. Have been out this season, and caught thirteen seals around Cape Flattery, seven of which had pups in them, the balance being young seals, about one-half each of male and female. We lose but very few seals that we hit with a spear. In all of my experience as a seal hunter I have captured but one or two old bulls. I am unable to distinguish a male seal from a female seal while at a distance in the water. I have never caught a cow in milk along the coast, nor a small pup that had been born that year. Seals do not haul out upon the land and breed, along the coast, nor give birth to their young in the water or on the kelp. About six years ago I noticed the seal herd began to decrease, and they are getting less each year ever since the white hunter came about here and commenced killing them with guns. They kill and wound a great many that they do not get. I have speared a great many seals that had shot in them. They are very scarce now, and very wild.

Experience. Majority caught are pregnant cows. Success with the spear. Sex indistinguishable in the water. Do not haul out on coast, or give birth to young in water or on kelp. Decrease. Waste of life.

and difficult to catch. If hunted with guns they will all soon be destroyed. Seals appear off Cape Flattery in December and January, and nearly all of them are gone by the first of July.

Appear off Cape Flattery in December and January, and are gone by July 1.

His
SELWISH X JOHNSON.
mark.

Witnesses:

JOHN P. MCGLENN.

C. E. GAY.

Subscribed and sworn to before me on this 27th day of April, A. D. 1892.

[SEAL.]

CLARENCE P. BROWN,
Notary Public in and for the State of Washington.

Deposition of James Lighthouse, Makah Indian sealer.

PELAGIC SEALING.

STATE OF WASHINGTON,

County of Clallam, ss:

James Lighthouse, being duly sworn, deposes and says: I am a native Indian of Makah tribe, and reside at Neah Bay, on the Indian Reservation, in the State of Washington, United States of America. I am about 55 years of age, and my occupation is that of hunting and fishing. I am the owner of the schooner *C. C. Perkins*. I have been engaged in sealing and fishing ever since I was old enough to do so. I have always hunted seals with the spear, and have never used the gun or been in Bering Sea. I have always sealed in the Strait of San Juan de Fuca, and around Cape Flattery, and up and down the coast from Barclay Sound to the Columbia River. I commenced going North to Barclay Sound about ten years ago. Seals are not nearly so plentiful now as they used to be. About seven years ago white men commenced to hunt seals in this vicinity with guns, since which time they have been decreasing in numbers and have become wild and hard to catch. I am intimately acquainted with the bays and coast from here to Barclay Sound, and I know of no place on the coast, neither have I heard of any, where seals haul out upon the land and give birth to their young, nor do I believe that they give birth to their young in the water or on the kelp. Of all the seals captured by me, about one-half of them, I think, were cows with pups in them, and it is very seldom that I have ever caught a full-grown cow that was barren or did not have a pup in her; nor have I, in my long experience, caught a cow that was in milk, or that had recently given birth to her young. I seldom ever kill an old bull, for there are but very few of them that mingle with the herd along the coast. I am unable to tell a male seal from a female while in the water, unless it be an old bull with a long wig. Seals are not as plentiful and are more shy than they used to be, and are more difficult to catch, because they have been hunted so much for the last five or six years with guns.

Experience.

C. C. Perkins.

Decrease.

Do not haul up on coast.

Are not born in the water or on kelp.

One-half of seals taken are pregnant cows.

Decrease.

My tribe used to hunt exclusively in canoes, and did not go many miles from the cape, but in the last ten or twelve years
 Hunting by Indians. a good many of the hunters put their canoes on the small schooners, owned by some of us, and we go farther out into the sea, and from the Columbia River to Barclay Sound, to hunt seals. Unless we use guns we will have to stop hunting them, for they are getting so wild we can not catch many. I know that a great many must be lost by the white hunters, for a great many that I catch have shot in them, and some are badly wounded. The first seals appear in the strait and on the coast about the last of December and feed along the coast, and seem to be working slowly to the north, until about the middle of June, at which time the cows are pretty much all gone, but the smaller seals remain until about the middle of July. I seldom see an old bull, and when I do he is much farther from land, and it is early in the season.

Formerly, we used to hunt seals for food and sold the skins to traders for \$2 or \$3 each, but for the last few years we have been getting big prices for the skins and we catch all we can without regard to size or sex. Ten years ago I seldom saw a white hunter shooting seals, but now the sea is full of them and they are banging away all the time, getting some but killing and wounding a great many they do not get.

his
 JAMES X LIGHTHOUSE.
 mark.

Witness:

JOHN P. MCGLINN.

C. E. GAY.

Subscribed and sworn to before me on this 27th day of April, A. D. 1892.

[L. S.]

CLARENCE P. BROWN,
Notary Public in and for the State of Washington.

Deposition of Osly, Makah Indian sealer.

PELAGIC SEALING.

STATE OF WASHINGTON,
County of Clallam, ss:

Osly, being duly sworn, deposes and says: I am a native Makah Indian, and reside on the Indian reservation at Neah Bay, in Clallam County, State of Washington, United States of America. I am about 28 years old, and am a fisherman and hunter by occupation. I have been engaged at seal hunting along the coast for the last ten years. At first I hunted in large canoes, but soon commenced to go hunting in schooners. I have sealed all along the coast, from the mouth of the Columbia River to the passes leading into the Bering Sea, and do not know of any place on the coast where seals haul out upon the land. Seals do not give birth to their young in the water nor on the kelp. About six years ago I went to Bering Sea, as a hunter, on the sealing schooner *Favorite*, McClean, master. She carried one stern boat and ten canoes;

Favorite, 1886.

we captured about 4,700 seals, most all of which were cow seals giving milk. The majority of the seals we caught in the Bering Sea were cows that had given birth to their young. We captured these at a distance of about 100 miles away from the Pribylov Islands. We used the spear more than the gun, and secured nearly all of them that we hit with it, but lost a great many seals that we shot; we prefer to use the spear, because in so doing we do not lose so many nor frighten them away.

Catch mostly pregnant or nursing cows.

Waste of life.

About four years ago I went to Bering Sea as a hunter in the sealing schooner *Challenger*, Williams, master. She carried boats and one canoe. There were three white men in each boat and two Indians in the canoe. We caught about 2,000 seals, most of which were cows in milk. The white hunters who used guns in the Bering Sea were banging away at the seals sometimes all day long, and they would lose a great many of those that they had shot. I do not think that they brought to the schooner one-half of those that they killed, to say nothing of those that they wounded and got away. I am unable to tell the sex of the seal while it is in the water, unless it be an old bull with a long wig.

Challenger, 1888

Catch mostly nursing cows.

Waste of life.

In 1889 I again went to the sea, in the schooner *James G. Swan*. Seals were not so thick in the sea that year as they were about four years previous to that time. Seals are likewise rapidly decreasing all along the coast. I have never killed an old bull or barren cow along the coast, neither have I killed a cow in milk along the coast, or anywhere else than in the Bering Sea. Small black pups are not seen in the water along the coast. Seals first appear off Cape Flattery about the 1st of January, and pass on up the coast and begin to disappear in June, the old cows leaving first, and about the last of June they are all gone.

James G. Swan, 1889

Decrease.

Appearance off coast.

OSLY (his x mark).

Witness:

C. P. BROWN.

JOHN P. MCGLINN.

Subscribed and sworn before me on this 27th day of April, A. D. 1892
[L. S.] CLARENCE P. BROWN,

*Notary Public in and for the State of Washington,
residing at Port Angeles, Wash.*

Deposition of Wilson Parker, Indian scaler.

HABITS PELAGIC SEALING.

STATE OF WASHINGTON,

County of Clallam, ss:

Wilson Parker, being duly sworn, deposes and says: I am a native Makah Indian and live on the reservation at Neah Bay, State of Washington, United States of America, and am by occupation a hunter and fisherman. I have been engaged in seal hunting for about eighteen years; the first eight or ten years I used to go as a steerer-man in large canoes, three men in

Experience Indian sealing.

a canoe, and the Indians in the canoe used spears. We hunted 10 or 15 miles off shore and about the same distance north and south of Cape Flattery. I used to hunt for seals in the Straits of San Juan de Fuca, but of late years have not done so because the seals do not come into the straits any more. During the last eight or ten years I have been hunting seals in smaller canoes and were taken farther out to sea by schooners that would carry ten or fifteen small canoes, each canoe manned by two Indians. I have sealed in that manner all the way along the coast from the Columbia River to the upper end of the Vancouver Island and have never seen a place along there where the seals hauled out upon the land. Seals do not give birth to their young in the water nor on the kelp. I never saw any black pups in the water, but we used to catch a great many more gray pups than we do now, and I have never captured any cows along the coast that were giving milk and that had given birth to their young that year. I never have captured any full-grown cows on the coast that were barren, and seldom see any old bulls and can not tell the sex of a seal in the water.

Sealing off coast.
Do not haul up on coast.

Sex indistinguishable in water.

Seals are very much more scarce than they were when I began to seal in schooners; I never see any more big herds like I used to, and it is much more difficult to get to them now than in former years. They have got wild and shy, because they have been hunted too much with guns. I have been out sealing this year and caught 16 seals; 5 of them were full-grown cows that had pups in them. The rest were young seals about 2 years old, both male and female, excepting 1, and that was a grey pup. The seals first appear in this vicinity about the 1st of January, and pass along up the coast in June and July. The cows most all disappear in June and the younger seals a little later.

Decrease.
Migration.
Has not hunted in Bering Sea.

I have always hunted with a spear and never with a gun, and have never been in Bering Sea.

WILSON ^{his} × PARKER.
mark.

Witnesses:

JOHN P. MCGLINN.
C. E. GAY.

Subscribed and sworn to before me on this 27th day of April, A. D. 1892.

[SEAL.]

CLARENCE P. BROWN,
Notary Public in and for the State of Washington.

Deposition of Chestoqua Peterson, clerk of trader.

PELAGIC SEALING.

STATE OF WASHINGTON,
County of Clallam, ss:

Chestoqua Peterson, being duly sworn, deposes and says: I am 24 years of age, and am the son of Peter Brown, the chief of the Makah Indians. I reside at Neah Bay, Clallam County, State of Washington, United States of America. I am by occupation a clerk in the trader's store here, and I speak the

Experience.

English language well, and can interpret the Chinook and Indian languages. During the last eight years I have been engaged in buying and handling seal-furs for my employer at Neah Bay. I assort the furs into different classes and qualities and usually divide them into four grades—first, second, third, and fourth.

The first-class is composed mostly of the skins of full-grown cows. I distinguish the skins of males from those of cows because the skins of the cows have white whiskers and those of males black whiskers.

Classes of skins.

The second class I place the skins of younger seals that are 2 years old and over. They all have black whiskers, both male and female, except perhaps a few seals, whose whiskers are beginning to turn white.

The third-class I place the skins of all seals that are less than 2 years old, excepting the gray pups.

The fourth-class I put the gray pups.

The third and fourth classes are about half male and half female. About one-third of all the skins taken here are graded as first-class skins, and are mostly female skins. In former years the Indians would take a greater proportion of pups than they do now. I know this because of the skins that are offered for sale now. In the schooner *James G. Swan* this year the Indians captured 198 skins, and among the whole lot there were only 2 skins of pups. The seals taken far off the shore are larger than those caught near the coast or in the straits. There are not as many seal skins offered for sale now as in former years, and last year our people caught less than one-eighth of what they used to prior to 1886.

Decrease.

James G. Swan, 1892.

CHESTOQUA PETERSON.

Subscribed and sworn to before me on this 27th day of April, A. D. 1892.

[SEAL.]

CLARENCE P. BROWN,
Notary Public in and for the State of Washington.

Deposition of John Tysum, Makah Indian (sealer).

HABITS. PELAGIC SEALING.

STATE OF WASHINGTON,

County of Clallam, ss:

John Tysum, being duly sworn, deposes and says: I am about 29 years old. I am a native Indian of the Makah tribe; I reside on the reservation at the Neah Bay Agency. I am by occupation a hunter and fisherman. I have been engaged in hunting seals ever since I was old enough. In 1889 I entered the Bering Sea in the schooner *James G. Swan*. I was never there before, nor have I been there since. About two years ago I began to hunt seals with the shotgun, but I have always carried a spear in my canoe, and frequently use it. I have sealed up and down the coast in canoes between Destruction Island and the north end of Vancouver Island. In latter years I have gone seal hunting in schooners that carried Indian canoes. Generally each canoe is manned by three Indians, one of which carries a spear. When a seal or a school of seals are sighted the canoe is low-

Experience.

James G. Swan, 1889.

Indian hunting.

ered and the Indians go toward the seal and try to capture them, and at night we return to the schooner with our catch. The seals are placed on board the schooner and skinned, sometimes the carcasses are thrown

into the sea, and sometimes they are saved for food.
 Migration. Seals appear on the coast about the last of December, and they are nearly all gone up north by the middle of July.

About half the seals caught along the coast are cows that have white
 whiskers and have pups in them. A good many young
 Pregnant females. males and females, from 1 to 2 years old are captured. They all have black whiskers. I have never
 Do not haul up on killed any old bulls along the coast, but have killed a
 coast. very few large cows late in the season that were barren. Seals do not haul out upon the land along the coast

and give birth to their young; nor do they breed on
 Waste of life. the kelp or in the water. I get most all the seals that
 I hit with the spear. I lose about one-half of those I shoot with a gun. If I kill a seal right dead, it sinks almost as quick as a rock, and if it is slightly wounded they run away and are lost.

I have captured a great many seals with the spear, and found shot
 in them. I have never captured any cows in milk
 Sealing in Bering along the coast, but when in the Bering Sea, in 1889, I
 Sea. sealed off about 90 miles from the seal islands and caught cows in milk there. During the last 5 or 6

years seals have decreased in numbers very rapidly. A
 Decrease. great many of the white men are poor hunters, and lose
 Waste of life. a great many of the seals that they shoot. They shoot,

and shoot, and shoot, and don't get any seals, and that
 Migration. makes them wild, so that an Indian can't get near them
 with a spear. The cow seals leave the vicinity of Cape
 Flattery sooner than the young seals do and are almost all gone in
 June, but I have killed young ones as late as July.

his
 JOHN X TYSUM.
 mark.

Witness:

JOHN P. MCGLINN.

C. E. GAY.

Subscribed and sworn to before me on this 27th day of April, A. D.,
 1892.

[SEAL.]

CLARENCE P. BROWN,
Notary Public in and for the State of Washington.

Deposition of Watkins, Makah Indian sealer.

PELAGIC SEALING.

STATE OF WASHINGTON,
County of Clallam, ss:

Watkins, being duly sworn, deposes and says: That I am a native
 Makah Indian, and reside at Neah Bay on the Indian Reservation in
 the State of Washington, United States of America. My age is about 35
 years, and I am a hunter and fisherman by occupation.
 Experience. I have been hunting seals all my life, or since I was old
 Indian methods of enough. Previous to ten years ago I always hunted
 hunting. seals with a spear in a large canoe, and from 20 to 30

miles around Cape Flattery and from 60 to 100 miles up and down the coast. Each canoe carried 3 Indians, and I was the spearman, and generally secured about all of the seals that I hit, but would sometimes miss them and they would swim away. In hunting with schooners during the last ten or twelve years we would take ten or fifteen smaller canoes on board and go up and down the coast from the mouth of the Columbia River to the upper end of Vancouver Island. We send but 2 men out in the small canoe. I have always used the spear in hunting the seals and none of the hunters that went with me ever used the gun. We do not like to use guns because it scares the seals away.

No guns used.
Guns frighten the seals.

I do not know of any place along the coast where the seals haul out upon the land and give birth to their young, nor can they give birth to their young in the water or on the kelp and have them live. Within the last five or six years the seals are becoming fewer and fewer, and are wild and shy and very hard to catch. Most of the seals captured along the coast are cows with pups in them. I have never captured any cows in milk or that had given birth to their young that year on coast, and I do not recollect of ever having caught an old bull. The seals first appeared about the cape the last of December, and the grown females all leave for the north in June, but we kill some of the younger seals up to the middle of July, and then they leave. I have not caught any gray pups this year and have never hunted seals in the Bering Sea. So many schooners and white men are hunting them with guns all along the coast that they are getting all killed off.

Seals not born in water.

Decrease.

Pregnant females taken.

No old bulls caught.
Off coast December till June.

No gray pups caught.
Extirmination.

WATKINS (his X mark).

Witness:

C. P. BROWN.

JOHN P. MCGLINN.

Subscribed sworn to before me on this 27th day of April, A. D. 1892.
[SEAL.] CLARENCE P. BROWN,

*Notary Public in and for the State of Washington,
residing at Port Angeles, Wash.*

Deposition of Charley White, Makah Indian, sealer.

HABITS. PELAGIC SEALING.

STATE OF WASHINGTON,

County of Clallam, ss:

Charley White, being duly sworn, deposes and says: I am about 40 years old, and am a native Makah Indian. I reside on the Indian Reservation at Neah Bay, State of Washington, United States of America. I am by occupation a hunter and fisherman, and have been so engaged all my life. I have hunted seals in canoes all along the coast, between Grays Harbor and the northern end of Vancouver Island. Years ago we went out in the ocean in canoes, but in later years we take our canoes out on the ocean in schooners and then hunt seals from the schooners. Have never been any farther

Experience.

Methods of Indian hunting.

north than Barclay Sound. I have always used spears in hunting the seals, and very seldom lose one I hit. While out hunting this year we caught sixteen seals; one-half of them were cows with pup, the remainder were yearlings and two years old, of both sexes. Seals begin to appear on the coast the latter part of December, and they are almost all gone by the 10th of July. The cows appear to leave for the northward earlier than the younger ones. While out seal hunting last year I captured a few seals that the white hunters had wounded and lost, and found a good many shot in their bodies. I have captured a good many seals lately that had buckshot in them. Seals do not haul out on land at Barclay Sound nor along the coast, nor do I think they give birth to their young in the water or on the kelp.

Migration.

Seals not born in water.

Seals were always plenty in the Strait of San Juan de Fuca and along the coast until the white hunter came here and commenced shooting them some six or eight years ago. Since that time they have decreased very rapidly.

Decrease.

CHARLEY ^{his} X WHITE.
mark

Witness:

JOHN P. MCGLINN.

C. E. GAY.

Subscribed and sworn to before me on this 27th day of April, A. D. 1892.

[SEAL.]

CLARENCE P. BROWN,

Notary Public in and for the State of Washington.

Deposition of Wispoo, Indian, sealer.

HABITS. PELAGIC SEALING.

STATE OF WASHINGTON,

County of Clallam, ss:

Wispoo, being duly sworn, deposes and says: I am a native Indian of the Makah tribe, and reside on the reservation at Neah Bay. I am about 35 years old, and am by occupation a hunter and fisherman. I have hunted seals all my life, or since I was old enough to do so. I have sealed up and down the coast, between the mouth of the Columbia River and the upper end of the Vancouver Island and Barclay Sound. I am familiar with the bays and inlets along the coast, and I do not know of any place on the coast where the seals haul out upon the land and breed. They do not give birth to their pups in the water nor on the kelp. Sometimes during a heavy storm a few seals will be driven on shore for a short time, but will not stay but a few hours. Until about eight years ago I used to catch seals in the Straits of San Juan de Fuca, but for the last two or three years they have been so scarce in the straits that we do not try to hunt them any more. About ten years ago I commenced hunting seals from schooners, using smaller canoes than I formerly did, and have always used spears in hunting seals. About seven or eight years ago schooners came

Experience.

Do not haul up on coast.

Sealing in straits.

Pelagic sealing.

in with white men who used shotguns, and have gradually increased in number and size of vessels, until now there are nearly one hundred sealing schooners engaged in sealing along the coast.

Seals are not near so plentiful as they were seven or eight years ago. I think the cause of this is that they have been hunted so much by white hunters, who use shotguns and rifles. Most all the seals caught by me along the coast were cows that had pups in them. I never killed a barren cow or one that was in milk, and have never seen a black pup in the water along the coast, but used to capture a great many gray pups, but this year I have not seen one. Seals first appear off Cape Flattery about the last of December. The cows seem to leave first, and in July nearly all of the seals have disappeared. I am familiar with the west coast of Vancouver Island, and have been in Barclay Sound, Clayquot Sound, and talked with the Indians there, and none of us know of any place along the coast where seals haul out upon the land and breed, nor have I heard any Indian speak of such a place. Seals do not give birth to their young in the water nor on the kelp. Many of the seals I have speared had shot and bullets in them. This was never seen before until about eight years ago, and now it is a frequent occurrence.

Decrease.

Pregnant females taken.

Migration.

Do not haul up on coast.

WISPOO (his x mark).

Witness:

JOHN P. MCGLINN.

C. E. GAY.

Subscribed and sworn to before me on this 27th day of April, A. D. 1892.

[SEAL.]

CLARENCE P. BROWN,
Notary Public in and for the State of Washington.

Deposition of Hish Yulla, Makah Indian, sealer.

PELAGIC SEALING.

STATE OF WASHINGTON,

County of Clallam, ss:

Hish Yulla, being duly sworn, deposes and says: I am about 60 years old, and am a native Indian of the Makah tribe, and reside on the Neah Bay Reservation, in the county of Clallam, State of Washington, United States of America. I have been a hunter and fisherman all my life. Years ago I used to hunt seals in the Straits of San Juan de Fuca in the winter time, and in the summer time I would hunt them in canoes from 10 to 20 miles off Cape Flattery, and of late years I hunt in a small canoe, and put it on a schooner and go up and down the coast between the mouth of the Columbia River and Barclay Sound. I have always used spears in hunting the seals. I have been out on the Pacific Ocean this year seal hunting, and caught three seals; they were large cow seals, and had pups in them. One and two year old seals are about equally male and female. I

Experience.

Grown seals caught are females.

Do not haul up or
give birth to pups on
coast.

Decrease.

have never seen a young black pup along the coast, nor I have never known the seals to haul out upon the land along this coast and give birth to their young. I never killed a cow in milk along the coast. Within the last five or six years seals have decreased in number very fast and are becoming very shy, and it is difficult to creep upon them and hit them with the spear. Years ago, the heads of seals along the coast would stick up out of the water almost as thick as the stars in the heavens, but since the white man, with so many schooners, have come, and began to shoot and kill them with the guns they have become very scarce.

Nearly 50 per cent
are pregnant females.

When seals leave
coast.

Almost one-half of the seals I catch are cow seals and have little pups in them. The cow seals are the first to leave the coast, but the young seals stay longer here, and are not all gone until in July.

HISH YULLA (his x mark).

Witness:

JOHN P. MCGLINN.

C. E. GAY.

Subscribed and sworn to before me on this 27th day of April, A. D. 1892.

[SEAL.]

CLARENCE P. BROWN,

Notary Public in and for the State of Washington.

Deposition of Thomas Zolnoks, Makah Indian, scaler.

PELAGIC SEALING.

STATE OF WASHINGTON,
County of Clallam, ss:

Thomas Zolnoks, being duly sworn, deposes and says: I am a native

Experience.

Makah Indian and reside on the reservation at Neah Bay, State of Washington, United States of America.

I am 24 years old, and am by occupation a hunter and fisherman. I have been engaged in hunting seals ever since I was 9 or 10 years old. Until about 1880 I hunted seals in large canoes, in which I always used the spear. In the last eight or ten years I have hunted for seals in small canoes carried on schooners, and sealed off Cape Flattery from 20 to 75 miles, and as far south as the Columbia River and north up to the passage into Bering Sea, but have never hunted for seals in those waters. About one-third of all the cows I caught along the coast were cows with pups in them; never caught any old bulls, and used to catch more gray pups than I do now. Most all the rest of the seals I caught have been 1 and 2 years old, and are about equally male and female. I never have seen or heard of a place along the coast where the seals haul out upon land. I never have seen any pups born the same year, nor have I ever caught any cow seals on the coast that were in milk.

One-third of cows
caught are pregnant.

Do not haul up on
coast.

Decrease.

Seals are much scarcer now than they used to be six or eight years ago. They used to go ten or fifteen in a bunch, but now we seldom see more than two or three together. A great many that I have caught in the last three or four years have

shot in them, and many have been badly wounded. The seals first appear off the cape about Christmas, but do not come in the straits now like they used to, and they are very shy and wild. They appear to be passing to the northward, up the coast, and in July are all gone. In hunting with spears I capture nearly all that I hit. If so many white hunters keep hunting the seal with shotguns as they do now, it will be but a short time before they will all be gone.

Appear off Cape
Flattery about Christ-
mas.

Are gone in July.

THOMAS ^{his} X ZOLNOKS.
mark.

Witness:

C. P. BROWN.

C. PETERSON.

Subscribed and sworn to before me on this 27th day of April, A. D. 1892.

[SEAL.]

CLARENCE P. BROWN,
Notary Public in and for the State of Washington.

TESTIMONY TAKEN IN SAN FRANCISCO.

Deposition of Charles Adair, scaler (boat-puller).

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss :

Charles Adair, having been duly sworn, deposes and says: I am by occupation a sailor. I reside in Port Townsend. I have made two sealing voyages in the North Pacific and Bering Sea as seaman and boat-puller. In 1889 I went on the Ameri-

Experience.

James G. Swan, 1889.

Rosie Olsen, 1890.

can schooner *James G. Swan*, and the other, in 1890, in the British schooner *Rosie Olsen*, of which Captain McLean was master. We left about the 1st of March in the *James G. Swan*, the voyage being made about Cape Flattery, the mouths of the Straits of Fuca and the entrance of Puget Sound, and were gone about six weeks. We caught about 185 seals, mostly females in young, and we killed them while they were asleep on the water. The first day I hunted we killed 15, and used rifles and shotguns, but we used the shotguns mostly. We secured one out of about every five that we shot at or killed.

Pelagic sealing; females principally taken.

Waste of life.

The *Rosie Olsen* left Victoria about the 5th of March and went down to Neah Bay, down to Cape Flattery, about 80 miles south. We cruised around there about five weeks, and had about 275 seals, when we started north. Then we went to Queen Charlotte Sound on up to the Bering Sea. We entered the Bering Sea through Muckawa Pass about the 1st of July, and commenced hunting seals wherever we could find them, among which were a great many cows giving milk, which we killed from 30 to 150 miles from the islands. We had a row on board because some of the hunters were green hands and the men would not go out in the boats with them. They took the hunters out of our boats and put them into the other boats that made no catch, and then we kicked that they should put the green hunters into our boats, because everything they would shoot would sink on them and were lost. We cruised around there for awhile and finally the captain thought he would try the islands. We got \$30 a month, and 25 cents from the hunters and 25 cents for each skin off the boat. We refused to go on the islands on those terms, as we did not care to take the risk unless he gave us \$1.25 a skin. The captain would not give us that, so we cruised around again and at last we came to terms, the captain agreeing to give us \$1 a skin. We then

Bering Sea, time of entering.

Females seals in milk 30 to 150 miles from islands.

Hunters, inexperienced.

Boat-puller, pay of.

Raiding the islands.

The captain would not give us that, so we cruised around again and at last we came to terms, the captain agreeing to give us \$1 a skin. We then

went over toward St. Paul Island, but were driven away by a revenue cutter. We cruised around in the sea till the latter part of October, when we started for home. Our entire catch for that season was 1,270 skins. I think we got on an average about two males to ten females. An experienced hunter would get one out of every three that he shot or killed, and a green hunter would get about one out of every seven or eight that he shot or killed.

Females, percent-
age of.
Waste of life.
Hunter, experi-
enced.
Hunter, inexperi-
enced.

CHARLES ADAIR.

Subscribed and sworn to before me this 6th day of April, A. D. 1892.
[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Charles J. Behlow, furrier, San Francisco.

PELAGIC CATCH.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Charles J. Behlow, being duly sworn, deposes and says: I reside in San Francisco, State of California, and am by occupation a fur merchant, and have been so engaged permanently for the last thirty-five years, during which time I have been constantly handling large quantities of raw fur-seal skins from all different locations, and can readily distinguish the respective quality, size, age, and sex. On May 7 of this year I examined 355 salted fur-seal skins, ex-steamer *Umatilla* from Victoria, and found the same to be fresh skins taken off the animal within three months. They were killed in the North Pacific. On examination I found they were the skins known as the northwest coast seals, and belong to the herd which have their rookery on the Pribilof Islands. The lot contained 310 skins of the fur-seal cow (matured). From the shape of the skin most all of these cows must have been heavy with pup, and same cut out of them when captured. Eighteen skins of the fur-seal male (matured). Twenty-seven skins of the fur-seal gray pup, from 6 to 9 months old; sex doubtful.

Experience.

Examined catch of
the *Umatilla*, 1892.

North Pacific.
the northwest

Northwest coast
seals.

Nearly all pregnant.

On June 2, I examined 78 salted fur-seal skins, ex-steamer *Walla Walla* from Victoria, and found the same to be fresh skins taken off the animal within three months. They were killed in the North Pacific.

Examined catch of
the *Walla Walla*, 1892.

On examination I found they were the skins known as the Northwest Coast seals, and belong to the herd which have their rookery on the Pribilof Islands. The lot contained 66 skins of the fur-seal cow (matured). From the shape of the skin most all of these cows must have been heavy with pup, and same cut out of them when captured. Five skins of the fur-seal male (matured). Seven skins of the fur-seal gray pup, from 6 to 9 months old. Sex doubtful.

Northwest Coast
seals.

Nearly all pregnant.

On June 7 I examined 268 salted fur-seal skins ex-steamer *Umatilla* from Victoria, and found the same to be fresh skins taken off the animal within three months. They were killed in the North Pacific. On examination I found they were the skins known as the Northwest Coast seals, and belong to the herd which have their rookery on the Pribilof Islands. The lot contained 212 skins

"*Umatilla*," 1892.
Northwest Coast
seals.
Nearly all pregnant.

of the fur-seal cow (matured). From the shape of the skin most all of these cows must have been heavy with pup and same cut out of them when captured. Eleven skins of the fur-seal male (matured). Forty-five skins of the fur-seal gray pup, from 6 to 9 months old. Sex doubtful.

On the same date I also examined 124 salted fur-seal skins ex-*Umatilla* from Victoria, and found the same to be fresh skins taken off the animal within three months. They were killed in the North Pacific. On examination I found they were the skins known as the Northwest Coast seals, and belong to the herd which have rookery on the Pribilof Islands. The lot contained 93 skins of the fur-seal cow (matured). From the shape of the skin most all of these cows must have been heavy with pup and same cut out of them when captured. Fifteen skins of the fur-seal male (matured). Sixteen skins of the fur-seal gray pup, from 6 to 9 months old. Sex doubtful.

I notice on examining seals caught this spring that there is a lack of the larger size of productive animals, and the lots mostly contain the skins of the medium-sized seals, running from 2 to 3 years of age.

CHS. J. BEHLOW.

Subscribed and sworn to before me this 24th day of June, A. D. 1892.
[SEAL.] CLEMENT BENNETT,
Notary Public.

Deposition of Charles J. Behlow, furrier, San Francisco.

PELAGIC CATCH.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Charles J. Behlow, having been duly sworn, deposes and says: I reside in San Francisco, State of California, and am by occupation a fur merchant, and have been so engaged permanently for the last thirty-five years, during which time I have been constantly handling large quantities of raw fur-seal skins from all different locations, and can readily distinguish the respective quality, size, age, and sex.

On July 13, 1892, I examined 1,342 salted fur-seal skins, ex-schooner *Emma and Louise* from the North Pacific Ocean, and found same to be fresh skins taken off the animal within four months. They were killed in the North Pacific. On examination I find they were the skins known as the Northwest Coast seals, and belong to the herd which have their rookery on the Pribylov Islands. The lot contained four skins of the fur-seal, large bulls (breeding bulls), 123 skins of the fur-seal, male (mostly matured), 98 skins of the fur-seal, gray pup, less than one year old, sex doubtful; 1,112 skins of the fur-seal, cow (mostly matured). From the shape of the skin most all these cows must have been heavy with pup, and same cut out of them when captured.

CHARLES J. BEHLOW.

Subscribed and sworn to before me this 14th day of July, A. D. 1892.
[SEAL.] CLEMENT BENNETT,
Notary Public.

Deposition of Charles J. Behlow, furrier.

PELAGIC CATCH.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Charles J. Behlow, being duly sworn, deposes and says: I reside in the city and county of San Francisco, State of California; I am by occupation a fur merchant, and have been so engaged permanently for the last thirty-five years, during which time I have been constantly handling large quantities of raw fur-seal skins from many different localities, and I can readily distinguish the respective quality, size, age, and sex. Experience.

On the 26th instant I examined fifteen salted fur-seal skins ex-schooner *Rose Sparks* from the North Pacific Ocean, and found the same to be fresh skins taken off the animal within two months. They were killed in the North Pacific, and that they are of the skins known as the Northwest Coast seals, and belonged to the herd which have their rookery on the Pribylov Islands. Examined catch of the *Rose Sparks*.

The lot contained: 2 skins of the fur seal (matured); 2 skins of the fur-seal gray pup under one year of age (sex doubtful); 11 skins of the fur-seal cow (matured). And from the shape of the latter most all of these cows must have been heavy with pup, and some cut out of them when captured. Kinds of skins in the catch.
Mostly females.

CHS. J. BEHLOW.

Subscribed and sworn to before me this 30th day of July, A. D. 1892.
[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Charles J. Behlow, furrier.

PELAGIC CATCH.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Charles J. Behlow, being duly sworn, deposes and says: I reside in the city and county of San Francisco, State of California, and I am by occupation a fur merchant and have been so engaged permanently for the last thirty-five years, during which time I have been constantly handling large quantities of raw fur-seal skins from many different localities, and I can readily distinguish the respective quality, size, age, and sex. Experience.

On the 29th instant I examined 2,170 salted fur-seal skins ex-schooner *Ed. E. Webster*, that were taken by said schooner off the coast of Japan in the Pacific Ocean. I found them to be fresh skins skinned off the animal within four months last past, and that they are of the class of skins known as Russian seals, Examination of catch of the *Ed. E. Webster*.

and they belong to the herd having its rookery on the Commander Islands and the Robbins Bank.

The lot contains 320 skins of the fur-seal male (mostly matured); 105 skins of the fur-seal gray pup under one year of age (sex doubtful); 1,745 skins of the fur-seal cow (mostly matured). From the shape of the latter most all of these cows must have been heavy with pup, and the same cut out of them when captured.

I find the skin in this lot to run much larger in sizes than those known as the Northwest seals that are now taken on the American side. The greater percentage of these 2,170 salted fur-seal skins are of the large breeding cows with fully developed teats.

Some years ago the catch of the Northwest seals taken in the North Pacific Ocean and the Bering Sea (on the American side) contained a great number of the large breeding cows as above described; but of late years, on examining the catches, I find very few; and this year

hardly any, proving conclusively that the old stock of productive cows is almost exterminated. The herd to which the 2,170 seals above referred to belong, and

Old stock of breeding cows almost exterminated.
Russian and Alaskan herds do not mingle.

known as "Russian seal," and have no connection whatever with the seals taken on the coast of North America or in the Bering Sea, and known as the Northwest seal, the herd that have their rookery on the Pribylov Islands.

CMS. J. BEHLOW.

Subscribed and sworn to before me this 30th day of July, A. D. 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of William Bendt, fitter-out of sealing vessels, and managing owner of the schooner Bowhead.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

William Bendt, having been duly sworn, deposes and says: I reside in San Francisco. My occupation is that of saloon keeper and lodging-house keeper. I have been engaged in fitting out sealing vessels and sending them to the

North Pacific and Bering Sea for eight or nine years. I fitted out the schooners *Fowler*, *Laura*, *C. H. White*, and others. I am now the managing owner of the schooner *Bowhead*. I furnished my

Firearms and other outfit.

Take seals 10 to 150 miles from Pribilof Islands.

Decrease.

Prohibition necessary.

vessels with rifles and shotguns, and each vessel carried from three to seven boats, with three men to the boat, a hunter, boat-puller, and steerer, and when in the Bering Sea we take seals from 10 to 150 miles from the seal islands. There has been a great decrease of seals in the last few years from what there was in former years. They are also getting shy and scared from being hunted so much, and they are now very hard to catch. If they

do not protect them in the Bering Sea it will be but a few years before they will be exterminated.

There is very little in the sealing business now, the cost of fitting out a vessel being from \$5,000 to \$6,000, and you have to take the risk of having your vessel confiscated. I sent my vessel this year over to the coast of Japan. There were some seventy-odd schooners fitted out last year from Victoria and they all got good catches, while from here there were only from ten to fifteen schooners fitted out, and they did not do as well. From my knowledge of the business I am certain that the fur-seal will soon be exterminated if it is not protected in the Bering Sea. We might kill some in the Pacific Ocean, if there did not too many vessels go out to hunt them. I know of none, nor neither do I believe there is any place where the fur-seals haul up to breed on land along our shores or in the Bering Sea, except on Pribylov Islands, and further I do not believe it possible for the female to give birth to its young in the water and have it live.

Rookeries only on
Pribilof Islands.

Pelagic birth im-
possible.

W. BENDT.

Subscribed and sworn to before me this 14th day of April, A. D. 1892.
[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Martin Benson, sealer, and master of James G. Swan and Leo.

PELAGIC SEALING.

Martin Benson, being duly sworn, deposes and says: I have been engaged in sealing five years, as master of the *James G. Swan* and the *Leo*, in Bering Sea and North Pacific Ocean. I began to take seal off Cape Flattery about March 1. Followed the seal north and entered Bering Sea about July 20. The seal are constantly on the move up the coast from the time they first make their appearance off Cape Flattery. The spear and shotgun have been used by me. But few seal are lost that are struck with spear. About 66 per cent are lost when shot with shotgun and a larger proportion are lost when rifle is used. Seventy-five per cent of the seal taken on the coast are cows with pup. And the larger proportion of those killed in Bering Sea are also cows. Have killed cow seal, with milk in them, 65 miles from the Pribilof Islands. I think cow seal are tamer than young male seal. A few male seal are taken, ages ranging from 1 to 5 years. Once in a while we catch an old bull in the Pacific Ocean. The sex of the seal can not be told in the water unless it be an old bull, which is told by its size.

Experience.

Migration.

Seventy-five per
cent cows with pup
taken.

I use no discrimination in hunting, but kill everything that comes near. When seals are shot when they first put their heads above water they sink at once and are hard to secure. Always try to shoot seal in the head. If head is not exposed, we shoot them in other parts of the body. It is only a question of three or four years, if this indiscriminate slaughtering of seals is not stopped, they will become exterminated. Never have heard of or seen any pups being born in the water or anywhere else on the coast outside of the Pribilof Islands. I have never heard of

Indiscriminate kill-
ing.

Decrease.

Pups not born in
water or anywhere-
else outside Pribilof
Islands.

Fur seal do not
haul up on coast else-
where than on Pribi-
lof Islands.

Protection.

any fur-seal hauling up on the coast elsewhere than on the Pribilof Islands. If pelagic sealing is stopped in Bering Sea for a number of years seal would become plentiful again; if not stopped they will soon be exterminated.

MARTIN BENSON.

Subscribed and sworn to before me this 14th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Thomas Bradley, sealer (boat-puller).

PELAGIC SEALING.

STATE OF CALIFORNIA.

City and County of San Francisco, ss:

Thomas Bradley, having been duly sworn, deposes and says: I reside in San Francisco. My occupation is that of a seaman. *Maggie Ross, 1884.* In 1884 I shipped on the *Maggie Ross* as a boat-puller for a sealing voyage to the North Pacific and Bering Sea. We left Victoria about May, going north, and sealed all the way to the Bering Sea. We had about sixty before entering the Bering Sea, nearly all of which were females with young pups in them. We entered the Bering Sea the middle of May and captured 300 while in there. Most of these were mother seals with their breasts full of milk. We had six boats, four men to a boat, two boat-pullers and a steerer and hunter. We killed them with rifles. We used to shoot at anything we ran across, and got about a third of what we killed or wounded. I do not know how many miles off the seal islands we were when we caught them, as I did not know the distances.

THOS. BRADLEY.

Subscribed and sworn to before me this 15th day of April, A. D. 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Thomas Brown (No. 2), sealer.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Thomas Brown, having been duly sworn, deposes and says: I reside in San Francisco. My occupation is that of a laborer. I made a sealing voyage to the North Pacific and Bering Sea on the *Alexander*, of which Captain McLean was master. *Experience, Alexander, 1886, in Bering Sea.* We sailed from Victoria in January, 1885, going south to Cape Blanco, sealing round there about a month, when we bore north

to the Bering Sea, sealing all the way up. We had 250 seals before entering the sea, the largest percentage of which were females, most of them having young pups in them. I saw some of the young pups taken out of them. We entered the sea along about the 1st of May and caught between 600 and 700 seals from 30 to 150 miles off the seal islands, and four out of five were females in milk. I saw the milk running on the deck when we skinned them. We had six boats, three men to a boat, a boat-puller, hunter, and steerer. They used mostly shotguns, using a rifle for long range. We got on an average three or five out of every twelve killed and wounded. It depends a great deal upon the weather. There were lots of seals in the water at that time.

Greatest part females, mostly pregnant.

Taken 30 to 150 miles from Pribilof Islands.

Firearms principally used.

THOS. BROWN.

Subscribed and sworn to before me this 15th day of April, A. D. 1892.
[SEAL.] CLEMENT BENNETT,
Notary Public.

Deposition of John C. Cantwell, lieutenant, Revenue Marine.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss :

John C. Cantwell, having been duly sworn, deposes and says: I am a second lieutenant in the United States Revenue-Marine Service. I have been on duty in Bering Sea during the summer months of the years 1884, 1885, 1886, and 1891, and have frequently been on shore at the Pribilof Islands and in the waters adjacent thereto. Have always made it a careful study and paid particular attention to the number of seal, both on the Pribilof Islands and in the waters of Bering Sea. Whenever opportunity afforded have visited the rookeries for the purpose of photographing and sketching the animals and studying their habits, numbers, etc. I have boarded a large number of vessels fitted out as sealers and engaged in sealing, and have conversed with their masters and crews on the subject of pelagic sealing. From information gathered from these and other sources, and by comparison of testimony given by the seal hunters, would say that at least 66 per cent of seals killed or wounded escape and are never recovered, and that 75 per cent of seals shot in the North Pacific Ocean are females heavy with young, and that 80 per cent of seals shot in Bering Sea from July 1 to September 15 are females, most of which have given birth to their young and are mostly caught while feeding at various distances from land.

Pribilof rookeries in 1884-1886, and 1891.

Experience.

Waste of life; mostly pregnant females.

Area of hauling-out grounds decreasing.

Have observed carefully the areas occupied by the seals on the rookeries and hauling-out grounds, especially at Northeast Point and the reef on St. Paul Island, in 1884, 1885, 1886, and 1891, and on both rookeries the areas formerly occupied by seals have greatly decreased, so much so that at first appearance it seemed, in 1891, as if the hauling-out grounds had been entirely deserted. Subsequent examination disclosed the fact that this was not strictly true, there still being a small number of male seals left

on those grounds. Have also observed that the seals are much more scattered on the breeding rookeries than in former years (1884, 1885, 1886); also that the number of seals in the water has

Decrease:

proportionately decreased, and that they have grown very much more shy and difficult to approach. Without presuming to be absolutely correct, would estimate the number of seals present at St. Paul Island during the year 1891 to be about 10 per cent of the number there in former years of observation (1884, 1885, and 1886). I have also

Females feeding.

observed seals, presumably fishing, at distances varying from 10 to 150 miles from the island, and am of the opinion that most of the seals seen at distances more than 10 miles from land during the breeding season are females.

I did not observe any unusually large number of dead pups on the rookeries in my visits to the islands until the year 1891.

Dead pups.

During the month of September of that year, in company with Mr. J. Stanley Brown, I visited the Starry Ateel and eastern rookeries on St. George Island and saw more than the average number of dead pups and a great many living pups, evidently in very poor condition, and either dead or dying from starvation, differing in this respect from the condition in which they are ordinarily found at this time of the year. Subsequently in November, 1891, I visited the Polovina rookery on St. Paul Island, and in the course of one hour's slow walking, covering perhaps $1\frac{1}{2}$ miles of ground, estimated the number of dead pup seals to be not less than 1,000. I consider this number enormously in excess of the normal mortality. I was informed at the time

Autopsies.

that the stomachs of dead pups had been examined by the medical officers at the island and no traces of food were found therein. From personal observation I am of the opinion that fully 90 per cent of them died of starvation great emaciation being apparent. It will be necessary to prevent at once further open-sea or coastwise killing of seals, both in Bering Sea and the northern Pacific Ocean, if they are to save them from extinction on the Pribilof Islands.

Death from starvation.

Prohibition necessary.

lands.

The present system of taking seals on the islands in vogue and practiced by the lessees under governmental supervision is, in my opinion, the best that can be devised for building up and perpetuating this great industry, and if the pelagic hunter and his destructive methods were banished from the waters of the Bering Sea and North Pacific it would be but a few years when these islands would again be teeming with seal life. The weapons used by pelagic hunters are rifles, shotguns, and spears. I have heard of nets being used, and have seen one on board a sealer (the *Eliza Edwards*, Bering Sea, 1891), but know nothing of it, further than mere hearsay. The other weapons I have seen in use.

J. C. CANTWELL,

Second Lieutenant, U. S. R. M.

Subscribed and sworn to before me this 13th day of April, A. D. 1892.

[SEAL.]

CLEMENT BENNETT,

Notary Public.

Deposition of James L. Carthcut, sealer (master), 1877-1887.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

James L. Carthcut, being duly sworn, deposes and says: I am 79 years of age. I reside in the city and county of San Francisco. My occupation is that of a master mariner. I was engaged in hunting the fur-seals in the North Pacific in 1877 to 1887, and during the latter part of the time in Bering Sea. I usually left San Francisco in February or March of each year and sealed along the coast, following the herd north on their way to their breeding grounds on the Pribylov Islands in the Bering Sea. I usually entered the sea about the 1st of July and came out in September. About 85 per cent of my catch of seals along the coast of the North Pacific were females, and most all of them were cows in pup, and I used to kill most of them while asleep on the water. I lost a great many that were killed by their sinking before we could get to them. I think on an average I got one out of every three killed, but some of my hunters did not do as well. It is difficult to get more than one breeching seal out of six killed. It is the custom for hunters to brag about how many seals they get out of the number killed, and in trying to outdo each other they generally exaggerate the facts. During the months of March, April, May, and June the seals in the North Pacific are traveling leisurely towards the passes into Bering Sea.

Experience.

Migration.

Waste of life, principally female, and mostly pregnant.

About 80 per cent of the seals I caught in the Bering Sea were mothers in milk, and were feeding around the fishing banks just north of the Aleutian Islands, and I got most of my seals from 50 to 250 miles from the seal islands. I don't think I ever sealed within 25 miles of the Pribylov Islands. They are very tame after giving birth to their young and are easily approached by the hunters. When the females leave the islands to feed they go very fast to the fishing banks, and after they get their food they will go to sleep on the waters. That is the hunter's great chance. I think we secured more in proportion to the number killed than we did in the North Pacific. I hunted with shotgun and rifle, but mostly with shotgun. Seals were not nearly as numerous in 1887 as they were in 1877, and it is my belief that the decrease in numbers is due to the hunting and killing of female seals in the water. I do not think it possible for seals to exist for any length of time if the present slaughter continues. The killing of the females means the death of her born or unborn pup, and it is not reasonable to expect that this immense drain on the herds can be continued without a very rapid decrease in their numbers, and which practically means extermination within a very few years. If the seals are to be saved there must be no killing at any time in the waters of Bering Sea, and it is also very important for their preservation that no females be killed in the North Pacific. They must be protected in both of these waters or they will be exterminated. I have never known of seals hauling out on land anywhere on the coast except

Feeding females 50 to 250 miles from Pribilof Islands.

Firearms.

Decrease.

Dead pups.

Prohibition necessary.

Hauling out only on Pribilof Islands.

at the Pribylov Islands. I went sealing for eight years in the schooner *San Diego*. She was seized by the revenue cutter in 1886 in Bering Sea, about 120 miles from the seal islands and north of Unalaska. She was taken with her cargo of about 584 seal skins to Sitka and forfeited by the court.

The year following I went in the schooner *Sylvia Handy*, a new and elegant vessel. She was also seized in Bering Sea, about 170 miles from St. Paul Island and 17 miles from Unalaska. She was taken to Sitka and condemned with her cargo of nearly 1,700 skins on board. These seizures, with the cost of litigation which followed, broke up the firm of L. N. Handy & Co. and myself, and we had to quit the business, as I perceived the Government was condemning American vessels for sealing and releasing British vessels for the same offense. They treated us very badly. I am still in hopes we will be paid by it for our losses. In the *Sylvia Handy* I had also 26 seal skins which I had bought from a native hunter whose wife was sick and he wanted medicine for her. I gave him medicine and bought his skins to accommodate him. There could be no doubt but they were legally caught, but they were taken from me and finally sold. The judge (Dawson) of the court afterwards told me they should not have been condemned, and had he known it sooner he would not have permitted them to have been taken from me and sold on account of the Government. Most of the sealing fleet is now absent from this port in the hands of sealers of experience, having been so engaged for several years. So far as I know, their views, if they could be obtained, would be in harmony with my own opinions as herein expressed.

JAMES L. CATHCUT.

Subscribed and sworn to before me this 6th day of April, A. D. 1892.
[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Charles Challall, sealer, 1888-1890.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Charles Challall, being duly sworn, deposes and says: I reside in San Francisco; my occupation is that of a sailor; I have been sealing up the coast and in Bering Sea three seasons, commencing in 1888 and ending in 1890. In 1888 I went on the *Vanderbilt*. We did not go into the Bering Sea that year. In 1889 I went on the *White*, and in 1890 I went on the *Hamilton*. They were all sealers.

We generally left San Francisco in March or April, and we sealed along the coast up to Queen Charlotte Sound. The largest catch we ever made between San Francisco and Queen Charlotte Sound was in 1888 when we caught 300 seals. There was much less number of seals to be seen in the North Pacific and Bering Sea in 1890 than in 1888. We were hunting in the Bering Sea most of the time off Seventy-two and Unamak Pass, and we caught the seals as they were going to and from the Pribilof Islands to feed on the fishing grounds. We caught a great many seals on

Experience.

Vanderbilt, 1888;
White, 1889; *Hamilton*, 1890.

Decrease.

Females feeding.

the fishing banks just north and close by the Aleutian Archipelago. Most of the seals we killed going up the coast were females heavy with pup. I think 9 out of every 10 were females. At least 7 out of 8 seals caught in the Bering Sea were mothers in milk. The vessels I went out in had from 4 to 6 boats each. Each boat had 3 men, a hunter, and 2 pullers. The average hunter would get 1 out of every 3 that he shot; a poor hunter not nearly so many. There are 21 buckshot to a shell. I think a great many seals are wounded by hunters that are not taken. The gunshot wounds more seals than the rifle. I think the aim of the hunter is to kill the seal rather than wound it. When they are in school sleeping we get a good many. We did not get as many we shot at in the Bering Sea as we did on the coast. If we got 1 out of every 3 that we wounded in the Bering Sea we were doing pretty well. I do not know of any place where the seals haul up on this coast except on the seal islands.

Mostly pregnant females killed.

Waste of life.

Haul up only on Pribilof Islands.

CHAS. CHALLALL.

Subscribed and sworn to before me this 2d day of April, A. D. 1892.
[L. S.]

CLEMENT BENNETT,
Notary Public.

Deposition of Daniel Claussen, sealer.

PELAGIC SEALING.

Be it remembered, that on the 26th day of February, 1892, at my office, 434 California street, in the city and county of San Francisco, State of California, before me, Clement Bennett, a notary public in and for said city and county of San Francisco, State of California, duly appointed and commissioned to administer oaths, etc., personally appeared Daniel Claussen, who, being first duly sworn, testified as follows:

DANIEL CLAUSSEN, having been duly sworn, testified as follows:

By the NOTARY:

Q. What is your name, age, residence, and occupation?—A. My name is Daniel Claussen; age, 32; I reside in San Francisco and am by occupation a seal hunter.

Q. Are you a citizen of the United States?—A. I am; yes, sir.

Q. What State are a resident of?—A. California.

Q. Have you been engaged in catching seals in the Pacific and Bering Sea, and for how long?—A. I have been engaged in sealing in the Pacific and in Bering Sea for the last six years.

Experience.

Q. Do you know of what sex the seals were that you have taken in the Pacific and Bering Sea?—A. Mostly female.

Q. What percentage of the skins you have taken were cows?—A. About 80 per cent.

Q. What percentage of the cows you have taken were with pup?—A. About 70 per cent.

Mostly pregnant females.

Q. Is it not a fact that you destroy a large percentage of seals that you do not catch?—A. Yes, sir.

Q. What is that percentage?—A. We catch about 7 seals out of 10.

Waste of life.

Q. When does sealing commence in the Pacific and when does it end?—A. Sealing commences in the Pacific about the 1st of January and ends about the 1st of July.

Q. When does sealing commence in the Bering Sea and when does it end?—A. Sealing commences in the Bering Sea about the 1st of July and ends about the last of October.

Q. What percentage of seals are taken compared to those you destroy in doing so; in other words, how many do you actually get out of those you shoot?—A. We get about 75 per cent of what we shoot.

Q. Is it not a fact that when you first started in the business and was inexperienced in hunting, that you, like all other beginners, destroyed a much larger proportion than you now do?—A. It is; yes, sir.

Q. Are the seals you shoot at mostly asleep on the water or awake?—A. Asleep.

Indiscriminate slaughter.

Q. If awake, do you shoot at them while breeching?—A. We shoot any we can get.

Q. Have you ever seen any seals born in the water, and is it your opinion that it is possible for them to be born in the water?—A. No, sir; they would drown if born in the water.

Pelagic birth impossible.

Haul out only on Pribilof Islands.

Q. Do you know of any place where seals land, outside of the seal islands?—A. I do not.

Q. Has there been any decrease in the quantity of seals as compared to previous years?—A. I think there has.

Q. If there is a decrease, to what do you attribute it?—A. To the killing and hunting of them by seal-hunters.

Decrease.

Q. Do the pups perish with the cows that you kill?—

A. Certainly.

Q. Is it your opinion, if sealing continues unrestricted, that they will soon be exterminated?—A. I think so; yes, sir.

Q. In your opinion is it absolutely necessary to protect the cows in Bering Sea to prevent the herd from being exterminated?—A. It is absolutely necessary in my opinion.

Prohibition necessary.

Q. What months of the year do you think they should be protected?—A. From the 1st of July to the last of October I think they should be protected.

Q. Do you generally shoot seals with a rifle, or a shotgun?—A. Mostly with a shotgun.

Firearms.

Q. What shot do you use, buckshot or fine shot?—

A. Buckshot.

Q. Judging by the direction that seals were traveling in the spring of the year, during your experience, where do you suppose was their destination?—A. To the rookeries in the Bering Sea.

Q. Do you think it would be better that the Bering Sea should be entirely closed?—A. I think it would be better.

Closing of Bering Sea.

DANIEL CLAUSSEN.

STATE OF CALIFORNIA,

City and County of San Francisco, ss :

I, Clement Bennett, a notary public in and for said city and county of San Francisco, do hereby certify that the witness in the foregoing deposition named was by me duly sworn to testify the truth, the whole truth, and nothing but the truth; that said deposition was reduced to writing, and when completed was carefully read over to said witness, and by him subscribed in my presence.

In witness whereof, I have hereunto subscribed my name and affixed my seal of office this 26th day of February, 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Peter Collins, sealer (boat-puller).

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Peter Collins, having been duly sworn, deposes and says: I am by occupation a sailor and reside in San Francisco. I was engaged as a boat-puller during the years 1888 and 1889. On both trips I went out on the voyage of the sealing schooner *San Diego* to Bering Sea. In 1888 we left here in February, and commenced to seal off the coast near San Francisco and caught about 300 seals in the North Pacific; we then went into the Bering Sea about the middle of July, and left there about the 1st of September. We got 900 seals in 1888, and 1,100 in 1889, in the Bering Sea. The hunters used both shotguns and rifles. They used a rifle to shoot breeching seals, and a shotgun to shoot sleepers and tramps. The shotgun is not as fatal as the rifle, but wounds a great many more. Fully three-fourths of the seals shot in the North Pacific were females with young. Mother seals pregnant are more easily caught than young bachelors, and I am sure it is necessary for them to go on land to breed, and I have never heard of them going anywhere else than on the seal islands for that purpose. An average hunter will get one out of four of breeching seals, and one out of three of sleepers that he kills, but a common hunter will not get so many.

The hunters will kill any seals that come along, it being impossible to tell the sex in the water. Nearly all the cows are in milk during the months of July and August while they are out seeking food, and I have seen mothers with their breasts full of milk killed 100 miles or more from the seal islands. I know they go great distances in search of food. There were not nearly as many seals to be found in 1889 as there were in 1888. I think the decrease is caused by the great destruction of females killed in the sea by the hunters, and if something is not done to protect them from slaughter in the North Pacific and Bering Sea, they will all be gone in a few years.

Experience.

San Diego, 1888-'89.

Firearms.

Majority pregnant females

Hauling up only on Pribilof Islands.

Waste of life.

Indiscriminate.

Mothers feeding.

Decrease.

the decrease is the sea by the

Protection necessary.

PETER COLLINS.

Subscribed and sworn to, before me, this 2d day of April, A. D. 1892

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Washington C. Coulson, Captain U. S. R. M., in command of the Rush.

PELAGIC SEALING AND PRIBILOF ROOKERIES.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Washington C. Coulson, having been duly sworn, deposes and says:

In command of the
Rush and *Lincoln*,
1870.

I am captain in the United States Revenue-Cutter service. At present I am in command of the United States revenue cutter *Rush*. I was attached to the United States revenue cutter *Lincoln*, under the command of

Capt. C. M. Seannmon, during the year 1870, from June until the close of the year, as a third lieutenant, and have been an officer in the revenue service ever since. In the month of that year I

St. Paul and St.
George islands in
1870.

was in the Bering Sea and at the seal islands of St. Paul and St. George. I went on shore at both islands and observed the seals and seal life, the method of killing, etc. I noticed particularly the great number of seal, which were estimated by those competent to judge

Abundance of seals
in 1870.

that at least 5,000,000, and possibly 6,000,000, were in sight on the different rookeries. To me it seemed as though the hillsides and hauling grounds were literally alive, so great was the number of seals. At St. George Island, though the seals were never in as great numbers, nor were there so many hauling places, the seals were very plentiful. At this time and for several years thereafter pelagic sealing did not take

Management.

place to any extent and the animals were not diverted from their usual paths of travel. All firearms were for-

bidden and never have been used on these islands in the killing and taking of seals. In fact, unusual noise even on the ships at anchor near these islands is avoided.

Visiting the rookeries is not permitted only on certain conditions, and anything that might frighten the seals avoided. The seals are never killed in or near the rookeries, but are driven a short distance inland, to grounds especially set apart for this work. I do not see how it is possible to conduct the sealing process with greater care or judgment. Under the direction of Mr. Redpath on St. Paul, and Mr. Webster on St. George islands, men who have superintended this work for many

Driving and kill-
ing.

years, the natives do the driving and the killing is performed under the supervision of the Government agents.

The natives understand just how much fatigue can be endured by the seals, and the kind of weather suitable for driving and killing, no greater precaution in that regard can be taken. The evidence of this is in the small percentage of animals injured or overheated in these drives. I do not believe the animals are much frightened or disturbed by the process of selecting the drives from the rookeries, nor do I think it has a tendency to scare the animals away from the islands.

Rush, 1890-'91.

During the seasons of 1890 and 1891 I was in command of the revenue cutter *Rush* in Bering Sea and cruised extensively in those waters around the seal islands and

the Aleutian group. In the season of 1890 I visited the islands of St. Paul and St. George in the months of July, August, and September, and had ample and frequent opportunities of observing the seal life as compared with 1870. I was astonished at the reduced

Decrease.

numbers of seals and the extent of bare ground on the

rookeries in 1890 as compared with that of 1870, and which in that

year was teeming with seal life. In 1890 the North American Commercial Company were unable to kill seals of suitable size to make their quota of 60,000 allowed by their lease, and, in my opinion, had they been permitted to take 50,000 in 1891, they could not have secured that number if they had killed every bachelor seal with a merchantable skin on both islands, so great was the diminution in the number of animals found there.

North American
Commercial Company
unable to procure its
quota in 1890.

I arrived with my command at St. Paul Island June 7, 1891; at that date very few seals had arrived and but a small number had been killed for fresh food. On the 12th of June, 1891, we were at St. George Island and found a few seals had been taken there, also for food, the number of seals arriving not being enough to warrant the killing any great number. During that year I was at and around both these islands every month from and including June until the 1st day of December (excepting October), and at no time were there as many seals in sight as in 1890. I assert this from actual observation, and it is my opinion we will find less this year, and should pelagic sealing in the North Pacific and Bering Sea continue, it is only a question of a very few years, when seal in these seas, and especially at the seal islands, will be a thing of the past, for they are being rapidly destroyed by the killing of females in the open sea.

St. Paul and St.
George islands in
1891.

Decrease.

As to the percentage of seals lost in pelagic sealing where the use of firearms is employed, I am not able to state of my own observation, but from conversations with those engaged in the business I am of the opinion that the number secured is small compared with those lost in attempts to secure them. No mention was ever made of any unusual number of dead pups upon the rookeries having been noticed at any time prior to my visit in 1870, but when I again visited the islands in 1890 I found it a subject of much solicitude by those interested in the perpetuation, and in 1891 it had assumed such proportions as to cause serious alarm. The natives making the drives first discovered this trouble, then special agents took note, and later on I think almost everyone who was allowed to visit the rookeries could not close their eyes or nostrils to the great numbers of dead pups to be seen on all sides. In company with Special Agent Murray, Captain Hooper, and Engineer Brerton, of the *Corwin*, I visited the Reef and Gobatch rookeries, St. Paul Island, in August, 1891, and saw one of the most pitiable sights that I have ever witnessed. Thousands of dead and dying pups were scattered over the rookeries, while the shores were lined with emaciated, hungry little fellows, with their eyes turned toward the sea uttering plaintive cries for their mothers, which were destined never to return. Numbers of them were opened, their stomachs examined, and the fact revealed that starvation was the cause of death, no organic disease being apparent.

Waste of life.

Dead pups.

Autopsies.

Death from starvation.

The greatest number of seals taken by hunters in 1891 was to the westward and northwestward of St. Paul Island, and the largest number of dead pups were found that year in rookeries situated on the western side of the island. This fact alone goes a great way, in my opinion, to confirm the theory that the loss of the mothers was the cause of mortality among the young.

Killing of mothers
causes death of pups.

After the mother seals have given birth to their young on the islands, she goes to the water to feed and bathe, and I have observed them, not only around the islands, but from 80 to 100 miles out at sea.

Females feeding 80 to 100 miles from Pribilof Islands.

In different years, the feeding grounds or the location where the greater number of seals are taken by poachers seem to differ; in other words, the seals frequently change feeding grounds. For instance, in 1887, the greatest number of seals were taken by poachers between Unamak, Akatan Passes, and the seal islands, and to the southwestward of St. George Island. In 1889, the catching was largely done to the southward and eastward, in many cases from 50 to 150 miles distant from the seal islands. In the season of 1890, to the southward and southward and westward, also to the northwest and northeast of the islands, showing that the seals have been scattered. The season of 1891, the greatest number were taken to northward or westward of St. Paul, and at various distances from 25 to 150 miles away.

Change in location of feeding grounds.

On my cruise to St. Matthews and Unamak Island, we did not discover any seal within 25 or 30 miles of those islands, nor do I know of or believe that the seals haul out upon land in any of the American waters of Bering Sea, except at the Pribilof Islands. If the seal life is to be preserved for commercial purposes, the seals must be protected, not only in the Bering Sea, but in the water along the Pacific coast from the Aleutian Passes to the Columbia River.

Hauling out only on Pribilof Islands.

Protection necessary.

WASH. C. COULSON,
Captain, U. S. Revenue Marine.

Subscribed and sworn to before me this 13th day of April, A. D., 1892.

[L. S.]

CLEMENT BENNETT,
Notary Public.

Deposition of Leander Cox, marine engineer, sailing since 1871 between San Francisco and Bering Sea.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Leander Cox, having been duly sworn, deposes and says: I am 52 years of age. I am by occupation a marine engineer. I reside in San Francisco. I first went to the Bering Sea in 1871, and have been going there annually since 1874.

Experience.

During the winter time I have been employed as engineer on a passenger vessel running between here and Victoria, British Columbia, making occasional trips south to San Diego, Cal. I saw but very few seals between here and San Diego, but north from here to Victoria I have formerly seen large herds of them sleeping and playing on the water during the winter and spring months. In May and June they congregate about the passes to enter the Bering Sea, and I have seen them in great numbers at this time. During my annual cruising in Bering Sea and to and from the Pribilof Islands I have carefully noted the number and appearance of seals in

Migration.

the water and on the breeding rookeries from the deck of my vessels and have also repeatedly visited the hauling grounds from year to year, and it was about 1884 and 1885 that bare spots began to appear on the rookeries, so much so that myself and the other officers often spoke of it and discussed the causes therefor.

Decrease in area of rookeries.

The decrease in number of seals both on the Pribilof Islands and in the waters of the Bering Sea and North Pacific has been very rapid since 1885, especially so in the last three or four years, and it is my opinion that there is not now more than one-third of the number of seals in these waters and on the islands that there were ten years ago. I attribute this decrease to the terrible slaughter of female seals now going on in the sea. I believe the days of the fur-seal are pretty much over, and if the remnant is to be saved, they must be protected in the waters of the North Pacific as well as in those of Bering Sea, from the rifle and shotgun of the hunter. I am of the opinion that it will take careful nursing for some years, under the most favorable circumstances, to restore the number of seals to anything like what it was prior to 1878. I was in the employ of the Alaska Commercial Company, the former lessees of the seal islands, and their instructions were to use the utmost care in taking their quota of seals, so that there might be no diminution in number from year to year, and I personally know those instructions were rigidly enforced. From my experience, observation, and conversation with seal hunters, I am of the opinion that fully 75 per cent of their catch are females, and that a vast number of the seals killed by them are lost. I am not now, and never have been, in the employ of the present lessees of the seal islands.

Decrease of seals.

Waste of life principally female.

Protection necessary.

Management.

Pelagic catch mainly females.

LEANDER COX.

Subscribed and sworn to before me this 6th day of April, A. D. 1892.
[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of John Dalton, sealer (boat-puller).

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and county of San Francisco, ss:

John Dalton, having been duly sworn, deposes and says: I am 32 years of age. I reside in San Francisco. My occupation is that of a sailor. I made a sealing voyage to the North Pacific and Bering Sea in 1885, on the schooner *Alexander*, of which Capt. J. F. McLean was master. I was a boat-puller. We left Victoria in January and went south to Cape Flattery and Cape Blanco, sealing around there about two months, when we went north, sealing all the way up to the Bering Sea. We had between 100 and 300 seals before entering the sea. Most all of them were females with pups in them. We entered the sea to the best of my recollection about June, and caught about 900 seals in there, two-thirds of which

Experience.

Alexander, 1885, in Bering Sea.

Mostly females.

were mother seals with their breasts full of milk. I saw the milk flowing on the deck when we skinned them. We had six boats, each boat having a hunter, a boat-puller, and steerer. We used shotguns all the time; we had rifles, but we did not use them. When it was rough weather, we got one out of six that we killed or wounded, and in smooth weather we could get on an average one out of three and sometimes three out of five. The waters were full of them at that time. We caught them from 50 to 60 miles off the seal islands.

Waste of life.

J. DALTON.

Subscribed and sworn to before me this 13th day of April A. D. 1892.

[L. S.]

CLEMENT BENNETT.
Notary Public.

Deposition of Joseph Dennis, sealer.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss :

Joseph Dennis, having been duly sworn, deposes and says: I reside in San Francisco. My occupation has been that of seaman for the last three years. I was on the *Vanderbilt* in 1888, that being the only sealing trip I ever made. We sealed from San Francisco to Queen Charlotte Island, and caught between 500 and 600 seals, nearly all females heavy with young. I have seen alive young pup taken out of its mother and kept alive for three or four days. We sealed from 10 to 120 miles off the coast, but was never up in the Bering Sea sealing. We hunted mostly with shotguns, and captured about one-half that we killed and wounded. I never knew or heard of seals hauling up along the coast or giving birth to their young in the water.

Experience.

Vanderbilt, 1888.

Mostly pregnant females.

No hauling up on coast or pelagic birth.

JOSEPH DENNIS.

Subscribed and sworn to before me this 2d day of April, A. D. 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Richard Dolan.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss :

Richard Dolan, having been duly sworn, deposes and says: I am 55 years of age. I reside in San Francisco. I am by occupation a longshoreman. I made a sealing voyage to the North Pacific and Bering Sea in 1885, on the schooner *Alexander*, of which Captain McLean was master. We left Victoria the latter end of Jan-

Experience.

Alexander, in Bering Sea, in 1885.

nary, and went south to Cape Blanco, sealing around there two or three months, when we started north to the Bering Sea, sealing all the way up. We had between 200 and 300 seals before entering the sea, a great many of them being females with pups in them. We entered the Bering Sea about the latter part of April, and got over 800 seals in there, most of them being females in milk, ^{Mostly milking females.} and we killed them from 20 to 100 miles off the seal islands. I saw the milk running on the deck when we were skinning them; that was the only way I could tell they were females. We had six boats on board, each boat having a boat-puller, hunter, and steerer. We used shotguns. We also had rifles, but only used them to shoot at long range. On an average all the hunters will get one ^{Waste of life.} out of every three or four seals that they killed or wounded. There were plenty of seals in the water at that time.

RICHARD DOLAN.

Subscribed and sworn to before me this 13th day of April, A. D. 1892.

[L. S.]

CLEMENT BENNETT,

Notary Public.

Deposition of James Henry Douglass, pilot on the Rush and Corwin, 1882 to 1888.

PELAGIC SEALING AND PRIBILOF ROOKERIES.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

James Henry Douglass, being duly sworn, deposes and says: I am a citizen of the United States. I am by occupation a master and pilot of vessels. My residence is Alameda, Cal. I have had a long experience sailing in the North Pacific and Bering Sea. I went to the seal islands in Bering Sea over twenty years ago, and have been there many times subsequently while in the employment of the Government. From 1882 to 1888 I cruised consecutively in Bering Sea as pilot on the revenue cutters *Rush* and *Corwin*, and was often on the seal islands, our vessel being frequently anchored offshore in the adjacent waters. I had abundant opportunity and leisure to watch the habits of the fur-seals, both on the Pribilof Islands and in the waters of the Northwest Pacific Ocean and Bering Sea. During my last visits to the islands I observed a very marked diminution in the number of seals ^{Decrease.} thereon as contrasted with the herd seen on the rookeries five or six years previously. I am familiar with the area and topography of the various rookeries on the islands, and have observed that spaces formerly occupied by seal herds are now vacant and parts of them covered with grass. ^{Grass on rookeries.} This diminution was particularly noticeable in 1887 and 1888, the last two years of my visits to the islands.

The cause of this decrease I believe to be due to the promiscuous killing of the seals by hunters on the open sea and the disturbance caused by their presence in destroying the mother seals and scattering the herds. ^{Cause.} I have conversed with a great many persons who have been engaged in sealing in the Northern waters, and their uniform testimony is to the effect that the open-sea

hunting is rapidly destroying the fur-seals, and that it is only a question of a few years until they entirely disappear if the pelagic sealing continues. Since the seal hunting began to be industriously pursued about the years 1884-'85, and the transfer of American schooners to the British flag at Victoria, British Columbia, took place to avoid seizure, I have been made acquainted, both from observation and conversation

with sealers, of the fact of the growing scarcity of seals.

Scattering of herds. During my voyages up and down the coast I have frequently seen fur-seals in small groups at points where, until lately, they were never known to appear before. This scattering of the herd is unquestionably in large part due to the fact that expert hunters first aim to kill the leader of these small herds, when the remaining members becoming confused and scattered fall an easier prey to the sealer, or losing their way wander off in their frightened condition to new grounds away from the usual path to the islands where they are killed by Indians or sealers alongshore.

My information and observation is that a very large proportion of those killed along the coast and at sea from Oregon to the Aleutian

Majority of females with pup.

Islands are female seals with pups; I think not less than 95 per cent. The proportion of female seals killed in the Bering Sea is equally large, but the destruction to seal life is much greater, owing to the fact that when

Waste of life.

a mother seal is killed her suckling pup left at the rookery also perishes. Impregnation having also taken place before she left the rookery in search of food, the fetus of the next year's birth is likewise destroyed. I also found that females after giving birth to their young at the rookeries seek the codlish banks at various points

Females feeding.

at a distance of from 40 to 125 miles from the islands for food, and are frequently absent one or more days at a time, when they return to find their young.

I have noticed that the females when at sea are less wild and distrustful than the bachelor seals, and dive less quickly in the presence of the hunter. After feeding plentifully, or when resting after heavy weather, they appear to fall asleep upon the surface of the water. It is then they become an easy target for the hunters.

About seven years since I was on the revenue-cutter *Corwin* when she seized the sealing schooner *San Diego* in Bering Sea. On the schooner's deck were found the bodies of

San Diego seized, 1885.

Majority of female skins on board.

some twenty seals that had recently been killed. An examination of the bodies disclosed that all of them, with but a single exception, were females, and had their young inside or were giving suck to their young.

Out of some 500 or 600 skins on board I only found some 5 of the number that were taken from males. I have also been present at numerous other seizures of sealing vessels, some eighteen in number, and

Other seizures, and skins aboard.

among the several thousand skins seized I found on examination that they were almost invariably those of females. There certainly was not a larger proportion of males than five to the hundred skins. This great slaughter of mother seals certainly means a speedy destruction to seal life.

I have myself observed, and have so learned from others, that for the last ten or fifteen years there were more seals at the islands than there were twenty-two years ago when I first visited the Pribilof Islands; an

Management.

increase due, without doubt, to the very careful protection and fostering of the seal herds afforded by the Alaska Commercial Company, then lessee of the islands.

J. H. DOUGLASS.

Subscribed and sworn to before me this 22d day of April, A. D. 1892
 [L. S.] CLEMENT BENNETT,
 Notary Public.

Deposition of Peter Duffy, sealer (boat-puller).

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Peter Duffy, having been duly sworn, deposes and says: I am by occupation a seaman. I reside in San Francisco. I was in the Bering Sea in 1884 and 1885, on board the *Sea Otter*, of which Captain Williams was master. I was a boat-puller. We left San Francisco and fished up the coast until we entered the Bering Sea, in July, and sealed about the sea until we were driven off by the revenue-cutter *Corwin*. From there we went to the Copper Islands. Our whole catch amounted to 900 skins, and we killed most of them with rifles. We only got about one out of eight that we shot at, and they were most all females giving milk or in pup. When we cut the hide off you could see the milk running from the breasts of the seals. The second year we got over 1,300 skins; some of them were cows with pups in them, and most all the rest were cows giving milk and some of the latter we killed as far from the rookeries as Unimak Pass. I can not tell the sex of the seal in the water. Our hunters were ordinary, average hunters. We tried to make a raid on St. George Island, but the *Corwin* was after us and we kept out of its way.

Experience.

Sea Otter in Bering Sea in 1884-'85.

Driven off by the *Corwin*.

Waste of life, mostly milking or pregnant seals.

Raid on St. George Island.

PETER DUFFY.

Subscribed and sworn to before me, this 6th day of April, 1892.
 [L. S.] CLEMENT BENNETT,

Notary Public.

Deposition of M. C. Erskine, master mariner for twenty-four years.

PELAGIC SEALING AND PRIBILOF ROOKERIES.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

M. C. Erskine, having been duly sworn, deposes and says: I am 55 years of age. I reside in San Francisco. I am a master mariner by occupation. I have been going to the Bering Sea twenty-four years. I went first to the seal islands in April, 1868, and have been going there ever since, visiting the islands every year until 1890. I have been cruising along the coast from here to the Aleutian Islands, and have had an opportunity of ascertaining the habits of the seals. A year ago last

Experience.

Seal islands 1868-1890.

March I saw a herd of seals of from 500 to 600 just above Cape Mendocino. I have also often met large numbers scattered along the coast of Cape Flattery, generally from 10 to 20 miles offshore. I have never been around the coast from Sitka to Prince William Sound. From what I have seen and heard I believe seals are found from Cape Mendocino up to Cape Flattery in the winter months. In December, January, February, and March of the years 1890 and 1891 I was running on the regular passenger trips from here to Puget Sound. I frequently saw both seals and hunters. I think the seals

Move from coast in March and April.

commence to leave the coast working their way north in March and April. Two years ago this spring, within 20 or 30 miles off Cape Flattery, west of the coast of Vancouver, I sighted one trip 5 or 6 sealing schooners.

While there is some difference in the appearance of the female and old male seals, I do not think it would be possible for the hunters to tell that difference in the sea at any great distance. I have noticed that the seals gather in large herds at the passes about the time they are ready to go into the Bering Sea, and that they are more scattered

Large percentage of females taken.

Appear in Bering Sea latter part of April.

when seen along the coast. I saw one schooner's catch examined at Unalaska in 1889, and there were found a large per centage of female seals among them. The seals generally appear in the Bering Sea about the latter part of April. I think, however, their arrival depends a great deal upon the season. The large bachelor seals and the old bulls are the first to enter the sea about April or May, and the cows generally commence to arrive and are seen by thousands in the middle of June. For many years prior to 1890 I have observed the

First decrease in rookeries in 1884.

rookeries from my ship and also from the islands. The first decrease in the number appearing on the rookeries and in the surrounding sea that I particularly noticed was in the summer of 1884, and it has become more marked from year to year since. For the last three or four years their disappearance has been very marked. In October, 1890, I made a trip from Unalaska to St. Michaels. When about 20 miles south of St. George we commenced to watch for seals passing the Zapandie rookery close in shore, along the west end of St. George Island to Otter Island and Seal Island rock; thence to Northeast Point about a mile and a half off shore.

When we started I requested the officers to keep a sharp lookout and to report if they saw any seals in the water. I was on deck most of the time myself, also, and we only saw 2 seals in the whole run, whereas, ten years ago, when on a similar voyage, seals were so plentiful that it

Decreased to one-third.

was impossible to count them. From my long observation I do not think there are as many seals by two-thirds now annually arriving on the islands or in those waters as there were ten years ago, when I first commenced to notice that they were decreasing. By this statement I mean to say that only one-third as many are now to be seen as formerly. I have often observed the driving and killing of the seal on the islands

Management. Driving and killing.

by the former lessees, the Alaska Commercial Company, and I know the company required the seals to be handled with great care, and that the instructions from the company were to that effect and rigidly enforced. Until hunting and killing was commenced by hunters in the open sea I observed no appreciable decrease in the number arriving, which was about 1884. In my opinion the chasing of the seals and the shooting of them has a tendency to frighten them and disturb them and prevents their increasing as they would if they were

left undisturbed in the waters. From my observation of the methods employed by the open-sea hunters I believe that a very large proportion of those killed by them are lost. I have often heard sealers so express themselves. They have said to me that they get only about 1 out of 5 shot or killed; others made the loss still greater. I think the latter statement more nearly correct. Waste of life 80 per cent.

The large decrease of seals in the waters of the ocean and sea must unquestionably be caused by the indiscriminate killing now going on by poaching schooners, and if not discontinued, it will most certainly be a matter of a very few years before the seals will be exterminated. I have been for the past twenty-four years and am now employed by the Alaska Commercial Company, the former lessees of the seal islands, and my opportunity for gathering the facts herein set forth has been of the most favorable character, both at the seal islands as well as in the Bering Sea. I am not now and never have been in the employ of the present lessees of the seal islands. Indiscriminate killing.

M. C. ERSKINE.

Subscribed and sworn to before me this 6th day of April, A. D. 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of George Fairchild, sealer (boat-puller).

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

George Fairchild, having been duly sworn, deposes and says: I reside in San Francisco. I am a sailor by occupation. I made a sealing voyage to the North Pacific and Bering Sea on the *Sadie Clyde*, of which Captain Dockerty was master. I was a boat-puller. We sailed from Victoria on the 10th of April, 1888. We went north to the Bering Sea, sealing all the way up, and got 110 seals before entering the sea. Most of them were cows, nearly all of which had pups in them. We took some of the pups alive out of the bodies of the females. We entered the Bering Sea May 25th, and we got 703 seals in there, the greater quantity of which were females with their breasts full of milk, a fact which I know by reason of having seen the milk flow on the deck when they were being skinned. We had 5 boats on board, each boat having a hunter, boat puller, and steerer. We used shotguns and rifles. We got 1 out of every 5 or 6 that we killed or wounded. We wounded a great many that we did not get. We caught them from 10 to 50 miles off the seal islands. Experience.
Sadie Clyde, 1888.

Mostly cows in pups.

Waste of life.

Caught seals 10-50 miles from islands.

GEORGE FAIRCHILD.

Subscribed and sworn to before me this 13th day of April, A. D. 1892.

[L. S.]

CLEMENT BENNETT,
Notary Public.

Deposition of George Fogel, managing owner since 1888.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss :

George Fogel, having been duly sworn, deposes and says: I am 52 years of age. I reside in San Francisco. My occupation is that of a merchant. I have been interested in sealing schooners for four years, prior to 1892. I sent

Experience.

*C. H. White and
Kate Manning.*

out the *C. H. White* and *Kate Manning* to the Bering Sea and North Pacific. We equipped our vessels with shotguns and rifles. They generally left here in March and hunted along the coast to the passes, and then into the Bering Sea and returned here in August or September. The seals taken by them were

Nearly all females.

nearly all females, as the bulls are scattered about and go out to sea a great distance, and it does not pay to go after them, while the females go in big bands and do not travel off shore as far as the bulls. We always sold our skins in San Francisco. From the ammunition we furnished them I learned that some of the

Experts get a sea
for 2 or 3 rounds of
shot; others, 40 to 50.

hunters on an average used from two to three rounds of shot to a seal, while others used from forty to fifty rounds. From the reports of the officers to me I learned that the seals were much scarcer in 1891 than they were in 1888, when I first sent them out. I have gone

Decrease.

out of the business because it became so unprofitable on account of the scarcity of seals. I give them four years more, and if they keep on hunting them as they do now, there will be no more seals left worth going after.

A few years ago you could go off shore about 50 miles from San Francisco and you would come across thousands of seals leisurely going north, while now we see but very few. I fitted out the

Cygnnet, in 1874.

schooner *Cygnnet* in 1874, which was one of the first sealers to go to the Bering Sea, and we had no trouble in getting seals at that time, for they were very plentiful and gentle, and would stand up and look at the hunters until they shot them. You can not do that now. Seals have been growing very scarce within the last few years, and it does not pay to fit out sealing schooners. I attribute the decrease

Antarctic seals.

in numbers to their being hunted so much. In 1870, I sent a vessel to Chillaway, off the coast of Chile, where there were thousands of seals in those waters. This last season the *Hancock* returned from a trip there, and the captain informed me that

Decrease.

there were no seals worth mentioning. They would have been good rookeries to-day if they had been protected from marauders. The South Shetland rookeries were in the same condition in former years, while to-day you could not get a thousand dollars worth of seals if you were to hunt there the whole season. My experience is that the seal herds in the North Pacific and Bering Sea

Prohibition neces-
sary.

have been greatly depleted within the last few years by the constant pursuit and killing of them in the water by hunters, and unless it is stopped at once they will be exterminated. The increased value of skins in the last few years has stimulated inexperienced men to go into the business; and they slaughter everything in sight

Indiscriminate kill-
ing.

without regard to sex.

Go. FOGEL.

Subscribed and sworn to before me this 9th day of April, A. D. 1892
[L. S.]

CLEMENT BENNETT,
Notary Public.

Be it remembered that on the 2d day of March, 1892, at my office, 434 California street, in the city and county of San Francisco, State of California, before me, Clement Bennett, a notary public in and for said city and county of San Francisco, State of California, duly appointed and commissioned to administer oaths, etc., personally appeared Luther T. Franklin, who, being first duly sworn, testified as follows:

Deposition of Luther T. Franklin, sealer.

PELAGIC SEALING.

LUTHER T. FRANKLIN, having been duly sworn, testified as follows:

The NOTARY:

Q. What is your name, age, residence, and occupation?—A. My name is Luther T. Franklin; age, 35; residence, at present, Oakland; occupation, seal-hunter.

Q. Are you a citizen of the United States?—A. Yes, sir.

Q. What State are you a resident of?—A. State of California.

Q. Have you been engaged in catching seals in the Pacific and Bering Sea?—A. Yes, sir.

Q. For how long a time have you been so engaged?—A. Three seasons.

Q. Do you know of what sex the seals were that you have taken in the Pacific and Bering Sea?—A. The majority of them are females. Last year I killed 72, and out of the 72 there was only 3 males. Experience.

Q. What percentage of the skins you have taken were cows?—A. About 90 to 95 per cent. 90 to 95 per cent cows.

Q. What percentage of the cows you have taken were with pup?—A. All that are killed in the Pacific are with pup, and those that are killed in the Bering Sea have been delivered of pups on the islands and are with milk. In pup or milking.

Q. When does sealing commence in the Pacific, and when does it end?—A. Sealing commences in the Pacific about the beginning of February, and ends about the 1st of May.

Q. When does sealing commence in the Bering Sea, and what date does it end?—A. Sealing commences in the Bering Sea about the 1st of May, and ends about the last of September.

Q. What percentage of seals are taken, compared to those you destroy in doing so? How many do you get of those you shoot?—A. That depends upon the hunter. The general average is about 35 to 40 are taken out of 100 that are killed. 35 to 40 per cent taken of those killed.

Q. Is it not a fact that when you first started in the business and was inexperienced in hunting, that you, like all other beginners, destroyed a much larger proportion than you now do?—A. Yes, sir.

Q. Are the seals you shoot at mostly asleep on the water, or awake?—A. Mostly asleep.

Q. Do you shoot at them while breeching?—A. Yes, sir.

Q. Have you ever seen any seals born in the water?—A. No, sir.

Q. In your opinion, is it possible for them to be born in the water?—A. No, sir; it is not possible. Pelagic birth impossible.

Q. Do you know of any place where seals land, outside of the seal islands?—A. I do not; except in the fall, they land on the Aleutian Islands. Land on Aleutian Islands in the fall.

Q. Has there been any decrease in the quantity of seals as compared to previous years?—A. I have not been on the islands in the last few years, but I should imagine there has been a great decrease.

Q. To what do you attribute the decrease?—A. To the number of vessels that are up there engaged in killing seals, nearly all of which are females. Last year there were 72 vessels fitted out from Victoria alone, to say nothing of vessels that are fitted out at other other places.

Q. Do the pups perish with the cows that you kill?—A. Naturally they must.

Q. Is it your opinion if sealing continues unrestricted that they will soon be exterminated?—A. Certainly they will.

Q. In your opinion, is it absolutely necessary to protect the cows in the Bering Sea to prevent the herd from being exterminated?—A. Certainly.

Q. For what months in the year is it necessary to protect the cows in the Bering Sea?—A. From the first of May to the last of August.

Q. Do you generally shoot seals with a rifle or a shotgun?—A. Most all hunters use shotguns, but I use a rifle with .38-.40 caliber.

Q. Judging by the direction that seals were traveling in the spring of the year, during your experience, where do you suppose was their destination?—A. The seal islands and the Bering Sea.

Q. In your experience, while you were hunting seals, nearly all the seals that you killed were cows and nearly all had pups?—A. Nearly all the cows that were killed in the Pacific were with pup, and consequently the pups were all killed. As I said before, out of 72 seals that I killed, there were only 3 males.

L. T. FRANKLIN.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

I, Clement Bennett, a notary public in and for said city and county of San Francisco, do hereby certify that the witness in the foregoing deposition named was by me duly sworn to testify the truth, the whole truth, and nothing but the truth. That said deposition was reduced to writing, and when completed was carefully read over to said witness, and by him subscribed in my presence.

In witness whereof I have hereunto subscribed my name and affixed my seal of office this 2d day of March, 1892.

[L. S.]

CLEMENT BENNETT,
Notary Public.

Deposition of William Frazer, sealer (boat-puller).

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

William Frazer, having been duly sworn, deposes and says: I am 22 years of age. I reside in San Francisco. My occupation is that of a laborer. I have made three trips to the North Pacific and Bering Sea within the last six

Experience.

years. My first trip was on the *Charles Wilson*, of which Capt. Robert Turner was master, and the next was in the *Vanderbilt*, and the last was in the *C. G. White*. We sailed from San Francisco on these trips. I left here on the *Charles Wilson* in the early part of March, and we followed up the coast, catching a few seals on our way, we were working our way right up north. We did not hunt in the Bering Sea that year, but hunted in the North Pacific, catching some 300 seals. I was a boat puller. The hunters used rifles and shotguns. They got about one out of every six they shot at or killed, and sometimes they got none. The greater majority of them were females. I could not tell whether a seal was a male or female while it was in the water unless it was an old bull. Mostly all the females killed has unborn pups or were cows giving milk. We did not kill any on the islands. We never went in close enough. We killed females giving milk more than 100 miles from the seal islands. Most all the seals sunk or dove out of sight when killed or wounded and a great many of them we could not get.

The next vessel I went on was the *Vanderbilt*. We did not enter the Bering Sea on that trip either. We got about 350 seals, most all females. She was wrecked and we came down on the *Dora*, belonging to the Alaska Commercial Company. The next trip was on the *C. G. White*. That trip we entered the Bering Sea on the Russian side, and hunted all the coast of Japan to the Bering Sea. I do not know if we were on the American side or not. We got about 600 seals on that trip. They were nearly all females. I noticed when we skinned them that they were females in milk, as the milk would run from their breasts on to the decks. We got back here in September, and landed our skins here. There were not as many seals last year as there were the first years I went.

WILLIAM FRAZER.

Subscribed and sworn to before me this 5th day of April, A.D., 1892.
[L. S.]

CLEMENT BENNET,
Notary Public.

Deposition of Edward W. Funcke, scaler.

PELAGIC SEALING.

Be it remembered, that on the 26th day of February, 1892, at my office, 434 California street, in the city and county of San Francisco, State of California, before me, Clement Bennett, a notary public in and for said city and county of San Francisco, State of California, duly appointed and commissioned to administer oaths, etc., personally appeared Edward W. Funcke, who being first duly sworn, testified as follows:

EDWARD W. FUNCKE, having been duly sworn, testified as follows:

The NOTARY:

Q. What is your name, age, residence, and occupation?—A. My name is Edward W. Funcke; age, 27; residence, at San Francisco; occupation, seal hunter.

Q. Are you a citizen of the United States?—A. No, I am not.

Q. What State are you a resident of?—A. California.

Experience.

Q. Have you been engaged in catching seals in the Pacific and Bering Sea, and for how long?—A. For the last five years; yes.

Ninety per cent taken are females.

Q. Do you know of what sex the seals were that you have taken in the Pacific and Bering Sea?—A. About 90 per cent of them were females.

Q. What percentage of the skins you have taken were cows?—A. About 90 per cent.

About 60 per cent pregnant.

Q. What percentage of the cows you have taken were with pup?—A. About 60 per cent were with pup.

Beginning and end of sealing season.

Q. When does sealing commence in the Pacific, and when does it end?—A. Sealing commences about the 1st of January and ends about the middle of July in the Pacific.

Waste of life.

Q. What percentage of seals are taken compared to those you destroy in doing so? In other words, how many do you actually get of those you shoot?—A. About 30 per cent.

Q. Is it not a fact that when you first started in the business and was inexperienced in hunting that you, like all other beginners, destroyed a much larger proportion than you now do?—A. Yes, a little more in proportion.

Q. Are the seals you shoot at mostly asleep on the water or awake, and if awake, do you shoot at them while breeching?—A. Yes; we shoot at them while they are breeching, but if we get a shot while they are asleep we shoot then.

Q. Have you ever seen any seals born in the water, and is it your opinion that it is possible for them to be born in the

Not born in water.

born in water; no, sir.

Or outside of islands.

Q. Do you know of any place where seals land outside of the seal islands?—A. No, sir; I do not.

Q. Has there been any decrease in the quantity of seals as compared to previous years?—A. There is a decrease of about 20 to 30 per cent less.

Decrease.

Q. To what do you attribute that decrease?—A. I attribute it to them being overhunted.

Q. Do the pups perish with the cows that you kill?—A. Invariably they do; yes, sir.

Q. Is it your opinion, if sealing continues unrestricted, that they will soon be exterminated?—A. Yes; I think they will.

Q. In your opinion is it absolutely necessary to protect the cows in the Bering Sea to prevent the herd from being exterminated? If so, for what months in the year?—A. Yes, sir; I think it necessary from the 1st of July until the

Protection necessary.

Close season.

middle of September.

Q. Do you generally shoot seals with a rifle or a shotgun; and if the latter, with buckshot or fine shot?—A. We shoot nearly all of them with a shotgun, using buckshot.

Weapons used.

Q. Judging by the direction that seals were traveling during your experience, where do you suppose was their destination?—A. Well, they were bound toward the Bering

Migration.

Sea, I should judge.

Q. Do you think of anything else that is of value in regard to this

seal question that I have not asked you; anything you would like to say, you can give your opinion about?—A. Well, in my opinion I think that American vessels should be allowed the same privilege as other nations in the matter of hunting in the Bering Sea.

E. W. FUNCKE.

STATE OF CALIFORNIA,

City and County of San Francisco, ss :

I, Clement Bennett, a notary public in and for said city and county of San Francisco, do hereby certify that the witness in the foregoing deposition named was by me duly sworn to testify the truth, the whole truth, and nothing but the truth; that said deposition was reduced to writing, and when completed was carefully read over to said witness and by him subscribed in my presence.

In witness whereof, I have hereunto subscribed my name and affixed my seal of office this 26th day of February, 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of John Fyfe, sealer (boat-puller).

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss :

John Fyfe, having been duly sworn, deposes and says: I reside in San Francisco. My occupation is that of a sealer. I made a sealing voyage to the North Pacific and Bering Sea on the schooner *Alexander*, of which David McLean was master. I was a boat-puller. We sailed from Victoria about the latter part of January, 1885. We went south and sealed between Cape Blanco and the Columbia River for two months when we went north and sealed all the way up to the Bering Sea. We caught about 160 seals before entering the sea. Over 100 of them were cows. We entered the Bering Sea about April and we got 795 in there, the largest part of which were mother seals in milk. When we were skinning them the milk would run on the deck. We had six boats on board, each boat having a hunter, two boat-pullers, and a steerer, four men to a boat. We used rifles. We had experienced hunters on board and we got one out of every three killed or wounded. We killed some of them from 50 to 100 miles off the seal islands, and were very tame. When we shot the seals dead they would sink and we would not get them.

Experience.

Alexander, 1885.

Sixty per cent cows.

Majority taken in Bering Sea milking cows.

Experts secure one out of three.

Took some 50 to 100 miles from islands.

JOHN FYFE.

Subscribed and sworn to before me this 13th day of April, A. D. 1892.

[L. S.]

CLEMENT BENNETT,
Notary Public.

Deposition of Frank M. Gaffney, sealer (master).

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss.:

Frank M. Gaffney, having been duly sworn, deposes and says: I am 31 years old, an American citizen and master of the schooner *Hancock*, owned by Lynde & Hough, of San Francisco. I am now, and have been since 1879, engaged in fishing and seal-hunting. In 1885 I made a voyage to the Galapagos Island as master of the schooner *Dashing Wave*, arriving there on the 30th day of August, and remaining until the 8th day of December of the same year. I obtained at this time on those islands about 1,000 fur-seal skins which were sold in London at an average price of about 7 shillings each. The seals upon this group do not migrate. I observed the birth of pups during frequent intervals during all the time I was there, and from the size of those a little older it was apparent that they are born at all seasons of the year. They live in deep caves under the cliffs, seldom going into the sun. Many of those obtained by me were pulled out of these places with long gaffs and killed. We slaughtered old and young of both sexes. These seals are browner and in other respects quite different from those obtained in Alaska, yet they are the true fur-seal.

During the past winter I have made a second voyage as master of the schooner *Hancock* to the southern waters, in search of seals. I arrived at Rees Islet, off the coast of Southern Chile (latitude $46^{\circ}45'$ south, longitude $75^{\circ}45'$ west) and remained there from December 1st to December 17th, 1891, but obtained only one seal. I learned that seal still breed there in considerable numbers, but the Chileans are accustomed to visit this islet at an earlier time than the date of my visit while the pups are young, and to kill all they can obtain. In 1880 Captain Mills, of the schooner *La Ninfa*, visited this islet and obtained a small catch, and I am credibly informed and believe that more than 12,000 seals have since been obtained there.

On my return voyage I touched at Juan Fernandez (latitude $24^{\circ}21'$ south; longitude $76^{\circ}10'$ west), but got no seals though there were a few seen about there in the water. On December 25, 1891, I landed at Massafueros Island (latitude $34^{\circ}11'$ south; longitude $80^{\circ}50'$ west) and got 19 fur-seal skins. There were, I should think, about 200 or 300 seals on the island when I arrived there, but as they went into the water and did not come on shore again during my stay, I could not secure them. The pups at Massafueros are born in October, I think. They were old enough to swim when I was there.

A few days later I touched at St. Felix and St. Ambrose Islands (latitude $26^{\circ}10'$ south; longitude 80° west) and saw two fur seals. Findlay's South Pacific Directory states that there were formerly large herds of fur-seals on these islands.

I touched also at Guadalupe Islands, but found nothing. The International Company have had the lease of these islands for several years past, and, as I am informed and be-

lieve, obtained some skins there as late as last year, but upon the occasion of my recent visit, the island was deserted by both seals and men; only a few goats remained. I have been sailing to the Alaska coast, chiefly to the Shumagin Banks, in the codfish trade since 1879, and as master of a vessel since 1883. I have made in all some twenty-five or thirty voyages usually between April and October. I have found fur-seals always plentiful in the water, in the spring and early summer, off the Alaskan Peninsular, along the fishing banks, from 20 to 30 miles distant from land, but have seldom seen them at much greater distance than 30 miles.

Has seen plenty of seals within 30 miles of Alaskan Peninsula.

F. M. GAFFNEY.

Subscribed and sworn to before me this 30th day of April, A. D. 1892.
[L. S.]

CLEMENT BENNETT,
Notary Public.

Deposition of Thomas Gibson, sealer.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Thomas Gibson, having been duly sworn, deposes and says: I am a sailor and seal hunter by occupation. I reside in San Francisco. I have been engaged in sealing for ten seasons. My first voyage was about 1881, when I went out in the *San Diego*, of which Capt. Baynard was master. We sailed from this port; I shipped as a hunter; we started in to seal off the coast of California and worked our way up to the Bering Sea. We got that year 1,200, of which I got 400. We had five hunters that trip. The next trip I made was in 1882, when I went out in the American schooner *Lookout*, of which Capt. Kelly was master, leaving here about the latter part of March, and we sealed all the way up to the Bering Sea. We got about 500 before we entered the Bering Sea, and got about 600 in the Bering Sea. In 1883 I went out in the American schooner *Mary de Leo*, of which Capt. Wenworth was master. We left here in the latter part of March and worked our way north to the Bering Sea, sealing on our way, getting 500 seals before entering the Bering Sea. We got 200 more in the Bering Sea, when I got lost while hunting in a small boat, and was picked up by the *Mollie Adams*, and she brought me back to Port Townsend. The *Mary de Leo* returned here later, and I never learned how many seals she got altogether.

Experience.

San Diego, 1881.

Lookout, 1882.

Mary de Leo, 1883.

Mollie Adams, 1883.

In 1884 I went out in the American schooner *Alger*, leaving Port Townsend about the latter part of March. Capt. Raymond was master of her. We sealed on the coast, working our way to the Bering Sea, up to which time we got about 300 seals and we got about 250 seals in the Bering Sea. 1885 I went in the English schooner *Grace*, I do not remember the captain's name. We left Victoria about the latter part of March, taking the same route we caught about 400 in the North Pacific and about 200 in the Bering Sea, and then returned to Victoria. In 1886 I went in the American schooner *Alger*, leaving

Alger 1884.

Grace 1885.

Alger seized 1886.

Seattle about the latter part of March, and went north catching in the North Pacific about 800 seals, and then we entered the Bering Sea and caught about 1,000 more, when we were seized and sent to Sitka. I stayed in Sitka a few days, when I worked my way to Seattle, arriving there about

Active 1887.

December. Then, in 1887, I went in the English schooner *Active*, of which Captain Johnson was master. We left Victoria about the middle of March and went as far as Cape Cook, and caught about 200 seals, when she was lost and I was landed on Cape Cook, and came right down along the coast to Clockone Sound, and from there went down to Bartlett Sound and joined the English

Seaward, 1887.

schooner *Seaward* about a month or two after sailing from Victoria. Captain Lyman was master. He had 400 seals before I joined her. We went along the coast, catching 250 seals, and entered the Bering Sea, getting about 300 more, and came home about the 1st of September.

In 1888 I went out in the English schooner *Rosa Lee*, leaving Victoria

Rosa Lee, 1888.

about the latter part of March, going along the coast and catching about 200 seals in the North Pacific; then we entered the Bering Sea and got 400 more. I did not go out the next season, which would be 1889. In 1890 I went out in

C. G. White, 1890.

the *C. G. White*, of which Captain Hagman was master. We left San Francisco about the latter part of March and went to the coast of Japan, having caught 550 seals. Then we went into the Bering Sea and caught 25 seals, when our hunting boat was blown ashore on the Russian Islands. The Russian authorities gave us a house to live in and some clothes, and later on they sent us home. I did not know what had become of the schooner *C. G. White* until I returned here. The vessels that I went out in had from three to six boats, and 3 men to the boat—1 hunter and 2 boat-pullers. I did not pay much attention to the sex of seals we killed in the North Pacific, but know that a great many of them were cows that had pups in them, and we

Seventy-five per cent of those caught females in milk.

killed most of them while they were asleep on the water. I know that fully 75 per cent of those we caught in the Bering Sea were cows in milk. We used rifles and shotguns, and shot them when feeding or asleep on the water.

An experienced hunter like myself will get two out of three that he

Experienced hunter gets 2 out of 3 killed; an inexperienced, 1 out of 3 or 4.

Not born in water.

Haul up only on islands.

Killed milking females from 40 to 100 miles from islands.

Decrease.

kills, but an ordinary hunter would not get more than one out of every three or four that he kills. I have never heard of nor know of seals being born in the water, and I have never known of any place where they haul up on land except the seal islands. I have killed mother seals in milk from 40 to 100 miles off the seal islands. There has been a great decrease in the number of seals to be seen in the North Pacific and Bering Sea since I first went out to hunt them, and if the large fleet of vessels going to these waters annually continues to hunt in the future as in the past few years it is bound to exterminate the seal.

THOMAS GIBSON.

Subscribed and sworn to before me this 6th day of April, A. D. 1892.

[L. S.]

CLEMENT BENNETT,

Notary Public.

Deposition of George Grady, cook on sealing vessel.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss :

George Grady, having been duly sworn, deposes and says: I am 28 years of age. I reside in San Francisco. My occupation is that of cook on board of vessels. I went to the Bering Sea in 1889 upon the *Laura*, from Victoria, as a cook. We had three small boats and caught 1,400 seals on that voyage. We caught some a little ways from Victoria, and on the way up to the Bering Sea, but the most of them, about 1,200, we caught in the Bering Sea. I was told by the men that they were nearly all females, and I thought so too, from the milk that I saw in their breasts when they were on the deck. I saw over a hundred little pup seals taken out of the seals, which they threw overboard. Our hunters used rifles and shotguns. I have heard the hunters say that they lost more seals than they got. I also heard them say, if they got all the seals they shot at, they would have been home three months ahead of time, with a great deal larger catch.

Experience.

Laura, 1889.

from Victoria, mostly females.

Catch in Bering Sea mostly females.

little pup seals

Pups.

Waste of life.

his
GEORGE X GRADY.
mark.

Subscribed and sworn to before me this 13th day of April, A. D. 1892.
[L. S.]

CLEMENT BENNETT,
Notary Public.

Deposition of James Griffin, sealer (boat-puller).

PELAGIC SEALING.

James Griffin, being duly sworn, deposes and says: I am 22 years old, and live in San Francisco. I hunted seal last year in the schooner *La Nympha* as boat-puller. First seal seen and taken were off Cape Flattery, about April 15, and followed the seal into Bering Sea, where we arrived about July. The shotgun and rifle were both used. About 75 per cent are lost when shotgun is used. Have never seen but three seal killed by rifle secured. If you shoot a seal in the throat it is hard to secure him although each boat carries a long gaff to hook them out of the water. About nine out of ten seal killed in a season are females with pup. But a very few males were taken, their ages ranging from 1 to 4 years. But one old bull was taken in the season. Every seal is shot that comes near the boat, regardless of sex; hunters use no discrimination. Have never heard of pups being born in the water or anywhere else on the coast outside of the Pribilof Islands. Have never known seal to haul up on the land along the coast, except on the Pribilof Islands. Have killed female seal 90 miles from the seal islands that were full of milk. I think

Experience.

La Nympha, 1891.

Migration.

Nine out of ten killed females with pup.

Pups not born in water or elsewhere but on Pribilof Islands.

Do not haul up except on Pribilof Islands.

Nursing females
killed.

Protection.

that pelagic sealing should be stopped. Eight months in a year is too much to hunt any animal, and the seal will soon become exterminated if this pelagic sealing is allowed to continue.

JAMES GRIFFIN.

Subscribed and sworn to before me this 14th day of April, 1892.

A. W. LAVENDER,

United States Treasury Agent.

Deposition of Joseph Grymes, sealer (boat-puller.)

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss.

Joseph Grymes, having been duly sworn, deposes and says: I reside in Victoria. My occupation is that of a seaman. I

Experience.

Triumph, 1890.

Bering Sea: time of
entering and leaving.

Catch in sea.

Mostly pregnant or
nursing cows.

Waste of life.

made a sealing voyage on the schooner *Triumph* in 1890, as a boat-puller. We sailed about January, from Victoria, British Columbia, and sailed along the coast until the latter part of June and went into the Bering Sea, and sealed as near to St. George Island as we could, and caught about 300 or 400 seals in the sea. Our intention was to make a raid, but were driven away by a revenue cutter. We left the sea about the latter part of July. We used shotguns and rifles, using the shotguns mostly. The catch was mostly females. Those we got in the North Pacific were females in pup, and those taken in the Bering Sea were cows giving milk. The hunters would get on an average one out of every four they killed.

JOSEPH GRYMES.

Subscribed and sworn to before me this 12th day of April, A. D. 1892.

[L. S.]

CLEMENT BENNETT,

Notary Public.

Depositions of Charles H. Hagman et al., sealers.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Be it remembered, that pursuant to the request of W. H. Williams, esq., United States Treasury agent, in the city and county of San Francisco, State of California, on February 1, 1892, before me, Clement Bennett, a notary public in and for said city and county of San Francisco, duly appointed and commissioned to administer oaths, etc., personally appeared Charles H. Hagman, Alexander McLean, Gustave Isaacson, Frank Johnson, H. Harmsen, and Daniel McLean, witnesses who appeared then and there to depose and testify in the matter of the seal fisheries, who, being first by me duly sworn, were then and

there examined and interrogated by W. H. Williams, esq., and did depose and testify as follows, to wit:

CHARLES G. HAGMAN, having been duly sworn, testified as follows:

Mr. WILLIAMS:

Q. What is your name, age, residence, and occupation?—A. My name is Charles G. Hagman; age, 47; residence, San Francisco; occupation, seaman.

Q. Are you an American citizen?—A. I am.

Q. Have you ever been engaged in the business of catching seals in the Pacific or Bering Sea?—A. Yes, sir.

Q. For how long a period?—A. About eight years.

Experience.

Q. Have you been master of a vessel thus engaged?—
A. Yes, sir.

Q. Have you any experience as to the habits of the fur-seals?—A. Not any more than they seemed to emigrate in the winter, and go north in the summer. That is all I know of their habits. I have never seen them out of the water.

Q. What time of the year do you generally start out sealing in the Pacific, and up to what time do you continue?—A. From the 1st of February, as a general thing, until about June, on the coast. Then we used to go in the Bering Sea. I have not been there for four or five years.

Q. What time of the year are the seals all out of the Pacific, having gone to the Bering Sea?—A. They generally leave in June. You don't see but very few after June.

Seals out of Pacific in June.

Q. According to your experience, what percentage of animals that are shot at are actually taken by the boats?—A. Most all of them; very few escape. Maybe out of the whole year's catch of a couple of thousand a dozen may sink. It is a rare occurrence that they sink.

Mostly all shot at secured.

Q. Are the seals shot at asleep on the water or awake?—A. Both.

Q. Do you ever shoot at a seal when awake or breaching?—A. Yes, sir.

Q. What sex are the seals taken by you or usually killed by hunting vessels in the North Pacific or Bering Sea?—A. Mostly females. The biggest percentage, I think, are females.

Mostly pregnant females.

Q. What percentage of them are cows?—A. I couldn't tell you.

Q. Out of a hundred seals that you would catch ordinarily, what part of them would be cows?—A. I am under oath, and I could not tell you exactly. All I can say is, the greater portion of them.

Q. What percentage of the cows are taken with pup?—A. All the large ones have—all the grown females have. Very seldom you find a barren one.

Q. In your opinion, are any of the pups born in the water, or anywhere outside of the seal islands?—A. It has never come under my observation. I have never seen a seal on shore. I have never seen the seal islands yet; that is, St. George and St. Paul, I have never seen. I have seen the Copper Islands, on the Russian side.

Q. Have you noticed any decrease in the quantity of animals in the last few years?—A. As I have not hunted on this coast for several years, I am unable to say. When I was there I saw no difference.

Q. If you people are allowed to kill females still, is there any danger of exterminating them, do you think, supposing you go on and kill

them promiscuously?—A. I would be afraid that we would thin them out. I will not say exterminate them, but thin them out.

Q. Do you think it is necessary to protect the seal in the Bering Sea?—A. Certainly I do.

Protection necessary. Q. In the North Pacific?—A. In the North Pacific I will not say; but in the Bering Sea I think it is absolutely necessary.

Q. Are seals generally shot with a rifle or shotgun with buckshot?—A. Both.

Q. If the cow seals are to be protected in the Bering Sea, what months do you consider it would be necessary to prohibit any being taken?—A. I would not like to answer that.

Q. Do you think of anything else that is of value in regard to this seal question that I have not asked you; anything you would like to say, you can give your opinion about?—A. I think they should look out for those poachers—these people that go there late in the fall and steal them off the rookeries. There has been cases of that kind. I think that is decidedly wrong, both for me and the seals. That is what started the Government to look after them so well, finding out that they had been clubbing the seals on the islands.

Deposition of Alexander McLean, sealer (master).

ALEXANDER McLEAN, having been duly sworn, testified as follows:

MR. WILLIAMS:

Q. What is your name, age, residence, and occupation?—A. My name is Alexander McLean; age, 32; residence, San Francisco; occupation, master mariner.

Q. Are you an American citizen?—A. I am.

Q. Have you ever been engaged in the business of catching seals in the Pacific or Bering Sea?—A. I have.

Q. For how long a period?—A. Ten years.

Q. Have you been master of vessels thus engaged?—A. I have been nine years in the sealing business.

Q. What time of the year do you generally start out sealing in the Pacific?—A. I have varied always from the 11th of January until the 11th of February.

Q. When do you call the season's catch over?—A. About the 11th of September; probably a month later. I usually get back about the 11th of September.

Q. What time of the year are the seals all out of the Pacific, having gone to the Bering Sea? What months?—A. To my knowledge they would go into the Bering Sea after the 20th of June.

Seals out of Pacific after June 20.

Q. According to your experience, what percentage of animals that are shot at are actually taken by the boats? You can only estimate it?—A. That is a very hard question for me to give you a proper answer to.

Lose one out of ten.

I do not think they lose any more than one out of ten.

Q. What percentage of those shot at and are not taken perish?—A. Outside of that?

Q. Yes.—A. I can not answer that.

Q. Are the seals shot at asleep on the water or awake?—A. With me they are principally asleep on the water. Of late years they shoot them a great deal when they are awake.

Q. Do you shoot at seals when they are awake or breeching?—A. Yes, sir; when they come within range.

Q. Of what sex are the seals taken by you or usually killed by hunting vessels in the North Pacific or Bering Sea?—A. Principally females.

Q. What would be your judgment as to the percentage? Out of a hundred that you kill, how many of them would be females?—A. Say I would bring 2,000 seals in here. Ninety-five per cent females. I may have probably about 100 males; that is a large average.

Q. Lots of times there are not nearly as many?—A. No, sir; not near as many.

Q. What percentage of the females taken are with pup?—A. That depends on the season you are killing them in. When they are getting heavy in pup in the latter part of the season, the 1st of June, when you take a seal then you take two for one. You take the pup with them. That is, when it is a female. This is before we go into the sea. I have been into the sea for several years. For the last two years I have not gone in there; that is, while this restriction act has been put on. I have not interfered with the business.

Q. Your experience is that all of the adult females that you shoot during the forepart of the season up to July are with pup?—A. You may take it all the way from April, May, Mostly pregnant females. and June; from April all the female seals that you kill are with pup.

Q. Up until about the 1st of July?—A. Yes, sir.

Q. Until they go into the Bering Sea?—A. Yes, sir.

Q. In your opinion, is it feasible that pups can be born in the water and live?—A. I don't believe they can be born in the water at all and live. I have heard several people express themselves differently. I think myself it is impossible. Pelagic birth impossible. Seals have got to haul up on land to breed, and leave their pups on shore.

Q. Do you know any place where these seals go to land, except the seal islands on the American side?—A. No, sir; not any place that I know of. There have been lots of reports of places, but I have been to these places and could not find any Haul up only on islands. seals there.

Q. Have you noticed any decrease in the quantity of seals in the last few years over what it was a few years formerly?—A. I have noticed a decrease since I have been in the business; I have made a catch from 3,500 coming down to 1,500, a little Decrease. less than one-half.

Q. You do not consider there are nearly as many seals now as there used to be in the water?—A. No, sir; not now. I have been in the business for ten years, and I think in another ten years there will be a great deal less.

Q. To what do you attribute this decrease?—A. I think it is on account of killing those female seals when they have pups, and the business is getting so that so many vessels are going into it, and they are killing those pups off. A seal has not got a chance to go to work and increase.

Q. Killing the females, of course, destroys the pup and the female, and makes one less breed?—A. Yes, sir; when you kill the female seal you kill the pup with her.

Q. Did you ever kill any seals later in the season that were giving milk?—A. Yes, sir.

Q. The mother seals?—A. Yes, sir.

Q. How far from the islands have you killed those mother seals that were in milk?—A. I have killed them as far off as 150 miles off the land.

Q. Is that in the Pacific or Bering Sea?—A. Both in the Pacific and Bering Sea.

Q. They were evidently the mothers that had young?—A. Yes, sir; they had their young. Some of the seals had left their young on the islands and were going away, and were through with them or going to feed. Sometimes a seal goes a long way off the islands at a certain time. It depends where the feed is. A seal does not think very much of traveling a hundred miles; they travel very fast when they want to.

Q. If sealing continues as heretofore, is there any danger of exterminating them?—A. If they continue as they have been, since I have been in the business, I will give them another ten years; after that the sealing business will be about finished. It will not justify anyone to fit out from here or anywhere else, and people that look after the sealing interests, I do not think they will benefit anything by it, if they don't protect the seal life at present.

Q. Do you think it is absolutely necessary to protect the cows in the Bering Sea to keep them from being exterminated?—A. I do.

Q. Is it often necessary to protect them in the North Pacific?—A. That is a question that should be international.

Q. What I want to get at is, is it your idea that in order to protect and keep up this supply of young seals that it is necessary not only to protect them in the Bering Sea but to protect the cows as they are in the North Pacific, nearing the ground, or as they are coming out?—A. Yes, sir; in the way it is here, the Pacific Ocean is a large ocean. The seals are spread all over, and it would be impossible to go to work and exterminate them from these waters to decrease them as long as they keep them out of the Bering Sea. That is where the body of the seals get into. For 40 miles within the passage they can not handle the seals at all, because you don't see them. They are traveling too much. You may see a herd once in while, but very rarely.

Q. Whereabouts in the North Pacific do you find them the most numerous?—A. You can start from San Francisco, and you carry them all the way up from the time you leave here until you get up to those passes; all the way up 150 miles to 30 miles in the shore. In some places you come in closer than that, according to the point of land that you come into.

Q. Are seals generally shot with a rifle or shotgun?—A. They used to shoot them with rifles; now they shoot them all with shotguns.

Q. In your opinion do the seals on the Russian side intermingle with those on the Pacific side, or are they a separate herd?—A. They are a different herd of seals, altogether.

Q. If the cow seals are to be protected in the Bering Sea, what month do you think it would be necessary to prohibit any being taken? Would you prohibit them being taken at any time or all times?—A. I think if they are prohibited at all they should prohibit them for about two months, principally July and August.

Q. How about September?—A. They are through breeding then, and the pups are ashore. There are only two months that they can interfere with them there for breeding purposes that I know of. The sea

sons get later every year. There are breeding dates, etc. Ten years ago they never used to be any later than August breeding there. Now they are getting later than that, and are getting on to September, because the world is changing, the climate is—the seals change according to the climate.

Q. In your view of the case they should be protected in the Bering Sea all the season?—A. Yes, sir; I think it would be advisable to protect them in the Berings Sea altogether. Prohibition necessary.

Q. You are an old sealer; perhaps you know some things that I don't. If there is anything you think of that is interesting I should like to know it?—A. No, sir; I should like to give my opinion as far as it is right, and beyond that I would not do it. I am interested in sealing, and want to protect the seals. I wish to say that I would like to see the seal islands protected from raids, and also the Bering Sea.

Deposition of Gustave Isaacson, sealer (master).

GUSTAVE ISAACSON, having been duly sworn, testified as follows:

MR. WILLIAMS:

Q. What is your name, age, residence, and occupation?—A. My name is Gustave Isaacson; age, 46; residence, San Francisco; occupation, hunting seals.

Q. Are you an American citizen?—A. Yes, sir.

Q. Have you ever been engaged in the business of catching seals in the Pacific or Bering Sea?—A. Yes, sir.

Q. For how long a period?—A. I have been principally occupied in otter hunting at the beginning of the seasons; at short intervals I have been sealing.

Q. For how many years?—A. Since 1872; but principally from the other side, the Okhotsch Sea side; since 1884 on this side.

Q. Have you been master of vessels thus engaged?—A. Yes, sir; for eight years on the Japan side and one year on this side.

Q. Have you any experience as to the habits of the fur-seals?—A. Only following them up hunting. I have been listening to your questions to Capt. McLean, and I have the same idea, except as to the protection. I think they ought to be protected everywhere they can, both outside and inside the sea. Protection necessary everywhere.

Q. What time of the year do you generally start out sealing in the Pacific and up to what time do you continue?—A. In the middle of January or February.

Q. What time of the year are the seals all out of the Pacific, having gone to the Bering Sea?—A. About the latter part of June. Seals out of Pacific about latter part of June.

Q. According to your experience, what percentage of animals that are shot at are actually taken by the boats?—A. I think about one-third is lost. One secured out of three.

Q. Are the seals shot at asleep on the water or awake, generally?—A. Mostly asleep. Very often they are shot at while traveling, breeching.

Q. Of what sex are the seals taken by you, or usually killed by the hunting vessels in the North Pacific or Bering Sea?—

Mostly females and pregnant.

A. Females.

Q. What percentage of them are females?—A. It is very seldom that you ever get hold of a male.

Q. What percentage of the cows taken are with pup?—A. In the early part of the season, up to June, all the full-grown cows are with pup.

Q. Did you ever kill any cows whose young were born, and were giving milk?—A. That I don't remember taking notice of. I can not answer that question.

No pelagic birth.

Q. In your opinion, are any of the pups born in the water?—A. I don't think so.

Born only on Pribilof Islands.

Q. Or anywhere else except on the seal islands?—A. I don't think so.

Q. Have you ever seen any seal pups in the Pacific that were younger than those born the year previous?—A. Down at Guadaloup Island about three months ago, I killed a cow there that had a pup that was too young to come from the Bering Sea and evidently had been born around there. That is about the only case I have seen.

Q. The pups that you see in the Pacific this year are those born last year. You don't see those born this year?—A. No sir; I do not.

Decrease.

Q. Have you noticed any decrease in the quantity of seals in the last few years?—A. Yes, sir; a great decrease.

Cause.

Q. To what do you attribute the cause?—A. Killing off the females; whale-killers and sharks kill a good many.

Q. If sealing continues as heretofore, is there any danger of exterminating them?—A. Yes, sir; I think a few years will do that.

Protection necessary.

Q. Do you consider it necessary to protect the seals in the North Pacific?—A. Yes, sir; it will be necessary to protect them anywhere where it can be done.

Q. Are seals generally shot with a rifle or shotgun?—A. Both rifle and shotgun; mostly shotguns.

Russian and Alaskan herds do not mingle.

Q. In your opinion, do the seals on the Russian side intermingle with those on the Pacific side, or are they a separate herd?—A. They do not intermingle at all.

Q. If the cow seals are to be protected in the Bering Sea, what month do you consider it would be necessary to prohibit any being taken?—A. I should consider it necessary to protect them all the time they are in the Bering Sea.

Deposition of Frank Johnson, sealer (hunter and mate).

FRANK JOHNSON, having been duly sworn, testified as follows:

MR. WILLIAMS:

Q. What is your name, age, residence, and occupation?—A. My name is Frank Johnson; age, 33; occupation, master mariner; residence, San Francisco.

Q. Are you an American citizen?—A. Yes, sir.

Q. Have you ever been engaged in the business of catching seals in the Pacific or Bering Sea?—A. Yes, sir.

Q. For how long a period?—A. About ten years, off and on. I have been otter hunting some years; about half.

Q. Have you been master of vessels thus engaged?—A. No, sir; this will be my first time this year.

Q. What position did you occupy?—A. Hunter and mate two years.

Q. What time of the year do you generally start out sealing in the Pacific, and up to what time do you continue?—A. From the latter part of January, generally, until the latter part of September; the middle of September.

Q. What time of the year are the seals practically out of the Pacific, having gone to the Bering Sea?—A. I always found them very scarce in the latter part of June.

Seals out of Pacific coast about latter part of June.

Q. According to your experience, what percentage of animals that are shot at are actually taken by the boats?—A. About a third to a quarter, we lose.

Q. Are the seals shot at asleep on the water or awake, usually?—A. Principally asleep.

Take one out of three or four.

Q. Of what sex are the seals taken by you or usually killed by hunting vessels in the North Pacific and Bering Sea?—A. Females, principally.

Mostly females.

Q. What percentage of them? For instance, if you kill 100 seals, how many males would you get?—A. Perhaps two. You strike a few bulls when you get further, say, towards the Aleutian Islands.

Q. What percentage of the cows that you kill are with pup?—A. That is pretty hard for me to estimate. Many times you strike young seals without pup.

Most of the adult females with pup.

Q. The adult females are all with pup?—A. Yes, sir; I have found a good many old ones that are too old to have pups, extra big size seals.

Q. In your opinion, are any of the pups born in the water, or anywhere outside of the seal islands?—A. I think they are born on land.

Pups born only on land.

Q. Have you noticed any decrease in the quantity of animals in the last few years?—A. I have found a decrease. I have not been doing much sealing in the last three or four years. I have been otter hunting, principally.

Decrease.

Q. To what do you attribute the cause of this decrease?—A. The increase of the fleet and killing of all the females.

Cause.

Q. If sealing continues as heretofore, is there any danger of exterminating the herd?—A. Yes, sir; I think so.

Q. Do you think it absolutely necessary to protect the cows in the Bering Sea?—A. Yes, sir.

Prohibition necessary.

Q. What do you think about protecting them in the North Pacific, providing you wanted to increase the seals and save them from extermination?—A. I don't know what to say about that. The North Pacific is pretty big.

Q. Are the seals generally shot with a rifle or a shotgun?—A. I generally shoot them with a rifle myself, but they are generally shot with a shotgun, from what I hear.

Q. In your opinion do the seals on the Russian side intermingle with those on the Pacific side, or are they a separate herd?—A. I think they are a separate herd.

Russian and Alaskan herds separate.

Q. If the cow seals are to be protected in the Bering Sea what month do you consider it would be necessary to prohibit any being taken?—A. From the beginning of July to the end of the year.

Deposition of H. Harmsen, sealer (master).

PELAGIC SEALING.

II. HARMSSEN, having been duly sworn, testified as follows:

Mr. WILLIAMS:

Q. What is your name, age, residence and occupation?—A. My name is H. Harmsen; age, 38; residence, San Francisco; occupation, mariner.

Q. Are you an American citizen?—A. Yes, sir.

Q. Have you ever been engaged in the business of catching seals in the Pacific or Bering Sea?—A. Certainly.

Q. For how long a period?—A. Since 1877.

Q. Have you been master of vessels thus engaged, or any officer in any official capacity?—A. Yes, sir; since 1880 I have been master.

Q. Have you any experience as to the habits of the fur-seal?—A. I have been catching a good many of them. I don't know much about their habits. You mean on the coast?

Q. Yes; their general habits of going and coming?—
Appear on coast about Christmas and leave about middle of June.
 A. Yes, they generally come round on the coast about a week before Christmas and up until about the middle of June, when they leave the coast and go north.

Q. What time of the year do you generally start out sealing in the Pacific, and up to what time do you continue?—A. We start out about New Year's.

Q. What time do you come in again?—A. About the middle of September or October.

Q. What time of the year are the seals practically out of the Pacific, having gone to the Bering Sea?—A. About the middle of June.

Q. According to your experience, what percentage of animals that are shot at are actually taken by the boats?—A. That depends a good deal on the man that shoots them. Some secure but one out four or five; average, three out of five. Some fellows will miss four out of five and another may miss three out of five and cripple them. I think on a general average we will get about three out of five.

Q. Are the seals shot at asleep on the water or awake, usually?—A. Most asleep.

Q. Of what sex are the seals taken by you or usually killed by hunting vessels in the North Pacific and Bering Sea?—A. Cows altogether; nothing but cows. I never caught a bull in my life, and I have got about 10,000 of them.

Q. What percentage of the cows taken are with pups?—A. You can safely say about four-fifths of them. Eighty per cent of those taken pregnant cows. You get about 800 out of 1,000 seals.

No pelagic birth.

Q. In your opinion, are any of the pups born in the water or anywhere else outside of the sea islands?—A. No, sir; I don't think it.

Q. Have you noticed any decrease in the quantity of animals in the last few years? In other words, do you find them as plenty now in the last year or two as you used to?—A. Of course not.

Decrease.

They are not so plentiful, that is sure. In 1880 we got 2,100 seals. Now you couldn't get 300 in the same time.

Cause.

Q. To what do you attribute this decrease?—A. Too many in the business, I suppose; too many after them.

Q. Would you attribute it to the killing of the females and thereby

there are not nearly as many born?—A. Certainly; it has got all to do with it.

Q. Then really the killing of the females you attribute to the decrease?—A. Yes, sir.

Q. If sealing continues as heretofore is there any danger of exterminating the herd?—A. At this rate; yes, sir. Just keep at it and it will be only a few years before it will do away with the whole business.

Q. Do you think it is absolutely necessary to protect the cows in the Bering Sea?—A. You ought to protect them, certainly; in order to keep the thing going they ought to be protected. Protection necessary.

Q. Is it necessary to protect the cows in the Pacific?—A. They kill the biggest half in the Pacific, so that they ought to be protected there.

B. Are they generally shot with a rifle or shotgun?—A. A shotgun exclusively, you might say.

Q. In your opinion do the seals on the Russian side intermingle with those on the Pacific side, or are they a separate herd?—A. No, sir; they do not come over this way. They are not a different breed, but they keep over by themselves. At least I don't think so. They follow their own stream Russian and Alaskan herds do not mingle. along there. There is so much water there where there are seals, and so much where there are not. They are by themselves.

Q. Now, then, if the cow seals are to be protected in the Bering Sea, what month, do you consider it would be necessary to prohibit any being taken?—A. Say from the middle of June until the end of the year; something like that, the first of December.

Deposition of Daniel McLean, sealer (master.)

DANIEL MCLEAN, having been duly sworn, testified as follows:

MR. WILLIAMS:

Q. What is your name, age, residence, and occupation?—A. My name is Daniel McLean; age, 43; occupation, master mariner; residence, San Francisco.

Q. Are you an American citizen?—A. Yes, sir.

Q. Have you ever been engaged in the business of catching seals in the Pacific or Bering Sea?—A. Yes, sir.

Q. For how long a period?—A. Eleven years.

Q. Have you been master of vessels thus engaged?—A. Eleven years.

Q. What time of the year do you generally start out sealing in the Pacific, and up to what time do you continue?—A. I start out about the 15th of December and stay out until about the 1st of October.

Q. What time of the year are the seals practically all out of the Pacific, having gone to the Bering Sea?—A. About the 15th of June. Not all, but the body of them. Seals out of Pacific about 15th June.

Q. According to your experience, what percentage of animals that are shot at are actually taken by the boats?—A. That is according to the amount of ammunition that we use. About one-third are taken. About one-third taken of those shot at.

Q. Are the seals shot at asleep on the water or awake, usually?—A. Most asleep.

Q. Of what sex are the seals taken by you, or usually killed by hunting vessels in the North Pacific and Bering Sea?—A. Females.

Q. What percentage of them are cows? Suppose you catch 100 seals, how many males would you have among them?—
Ninety per cent females, mostly with pups. A. About 10.

Q. What percentage of the cows taken are with pup?—A. The females are mostly all with pup, that is, up until the 1st of July.

Pups born only on islands. Q. In your opinion, are any of the pups born in the water or anywhere else out of the seal islands?—A. I have never seen any.

Q. Have you ever found any seal pups in the Pacific that were younger than those born the year previous?—A. No, sir; I have never seen any.

Decrease.

Q. Have you noticed any decrease in the quantity of animals in the last few years?—A. Yes, sir.

Cause.

Q. To what do you attribute the cause?—A. Killing off the females.

Q. If sealing continues as heretofore, is there any danger of exterminating them?—A. Yes, sir; they will all be exterminated in three years, and there will be no more sealing.

Protection necessary. Q. Do you think it is absolutely necessary to protect the cows in the Bering Sea?—A. Yes, sir.

Q. It is also necessary to protect them in the Pacific?—A. The Pacific is a large ocean, and they do not go in large bands. They go singly and in pairs, so that there is not a chance to kill so many of them in the ocean. In the Bering Sea they are in bands, and they go onto the islands and are concentrated in a small place.

Q. Are seals generally shot with a rifle or shotgun?—A. With a shotgun. Some with a rifle; mostly with a shotgun.

Russian and Alaskan seals do not mingle. Q. In your opinion do the seals on the Russian side intermingle with those on the Pacific side?—A. No, sir; I do not think so. They are different seals in my opinion.

Q. If the cow seals are to be protected in the Bering Sea what months do you consider it would be necessary to prohibit any being taken?—A. From the 15th of June until the season finishes; that would be the first snow. The pups do not leave the islands on the first snow, but when the second snow comes they leave the islands. They ought to be protected until the second snow; that is, in November.

Q. Did you ever kill any cow seals that were in milk, that had given birth to young and were in milk?—A. Yes, sir; I have, in Bering Sea.

Killed milking cows from 20 to 60 miles from islands. Q. How far from the seal islands were they?—A. Sixty miles; all the way from 20 to 60 miles; off St. George and St. Paul.

Q. Do you know of anything else that would be interesting in regard to the question?—A. I think the seals ought to be protected. I think the custom-house should not clear any ships either in the British Colonies or the United States for sealing in the Bering Sea; that is, if they want to protect them. I would like to see the islands protected from raids, and the Bering Sea also.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

I, Clement Bennett, a notary public in and for said city and county do hereby certify that the witnesses in the foregoing depositions named, were by me duly sworn to testify the truth, the whole truth, and nothing but the truth; that said depositions were taken on the 1st day of Feb-

ruary, 1892, at my office, rooms 12 and 13, 234 California street, in the city and county of San Francisco, in the State of California, and were reduced to writing by me.

In witness whereof, I have hereunto subscribed my name and affixed my seal of office this 9th day of February, A. D. 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Martin Hannon (sealer).

PELAGIC SEALING.

Martin Hannon, being duly sworn, deposes and says: I reside at Victoria, British Columbia. I am by occupation a seal hunter. Have been engaged in sealing the last three years on the British schooners *Triumph*, *Walter Rich*, *Borealis*, and *Umbrina*, and the German schooner *Adele*. First find and take seal in January off Columbia River. They are then advancing up the coast. We follow them until they enter Bering Sea about July 1st. I use the shotgun exclusively for taking seal. About 65 per cent of the seal hit are lost. A large majority of seals taken are females with young. Only two old bulls were taken by me last year out of the 100 seals taken. But very few yearlings are taken. Paid no attention to sex. A few male seals are taken between two and four years old, I think. Majority of the seals taken in Bering Sea are females with milk in them. Have killed them full of milk 100 miles from the seal islands. I use no discrimination in sealing, but shoot everything that comes near the boat regardless of sex. Have never known of any pups to be born in the water or on the land outside of the Pribilof Islands. Have never known any fur seal to haul up on the land elsewhere than on the Pribilof Islands. I think a closed season should be established between May 1st and September 15th in North Pacific Ocean and Bering Sea, which would give them a chance to increase.

Experience.

Triumph, Walter Rich, Borealis, Umbrina, Adele.

Migration.

Large majority pregnant females.

Majority nursing females.

Indiscriminate.

be born in the

No pelagic birth.

Do not haul up elsewhere than on Pribilof.

Protection.

MARTIN HANNON.

Subscribed and sworn to before me this 2d day of May, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of William Hermann (sealer).

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

William Hermann, being duly sworn, deposes and says: I am by occupation a seal and otter hunter. My present residence is in San Francisco. I have been engaged in seal and otter hunting eleven years in the Okhotsk Sea

Experience.

and the North Pacific. I use a shotgun when I am hunting seal and a rifle for otter hunting. I hunt with a No. 8 bore shotgun, and use No. 1 shot. Many seals are wounded and lost, depending largely on the skill of the hunter. I think I get pretty nearly all that I kill, but other hunters have been with me that I know lost a greater portion of those they shot at. Probably a fair average would be, taking all the hunters together, one seal secured to two lost. Nearly all the seals killed in the water before the middle of June are cows in pup, and after that, mothers giving milk. After the young is a few days old the mother travels out to the fishing banks to feed. It is difficult to tell the sex of a seal which you shoot at in the water, but you can tell a young seal from an old seal. Seals are not as plentiful now as they were a few years ago. I think they are decreasing on account of their being hunted so much.

W. HERMANN.

Subscribed and sworn to before me this 1st day of April, A. D. 1892.
[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Andrew J. Hoffman (sealer).

PELAGIC SEALING.

Be it remembered, that on the 24th day of February, 1892, at my office, 434 California street, in the city and county of San Francisco, State of California, before me, Clement Bennett, a notary public in and for said city and county of San Francisco, State of California, duly appointed and commissioned to administer oaths, etc., personally appeared Andrew J. Hoffman, who being first by me duly sworn, testified as follows:

ANDREW J. HOFFMAN, having been duly sworn, testified as follows:

The NOTARY:

Q. What is your name, age, residence, and occupation?—A. My name is Andrew J. Hoffman; age, 24; residence, San Francisco; occupation, seal hunter.

Q. Are you a citizen of the United States?—A. I am.

Q. What State are you a resident of?—A. The State of California.

Q. Have you been engaged in catching seals in the Pacific and Bering Sea, and for how long?—A. I have been engaged in sealing there for three years last past.

Q. Do you know of what sex the seals were that you have taken in the Pacific and Bering Sea?—A. The seals that I have taken were principally females.

Q. What percentage of the skins you have taken were cows?—A. About 95 per cent of them were cows.

Q. What percentage of the cows you have taken were with pup?—

A. About the same amount were with pup.
Ninety-five per cent of catch were pregnant cows. Q. When does sealing commence in the Pacific, and when does it end?—A. Sealing commences there about the 1st of January and ends about the 1st of June.

Q. What percentage of seals are taken compared to those you destroy in doing so; in other words, how many do you actually get out of those you shoot?—A. We get about 75 per cent of them. Secure 75 per cent of those shot.

Q. Is it not a fact that when you first started in the business and was inexperienced in hunting, that you, like all other beginners, destroyed a much larger proportion than you now do?—A. Yes, sir; it is. Waste of life.

Q. Are the seals you shoot at mostly asleep on the water or awake? Do you shoot at them while breeching?—A. About 50 per cent of them are asleep, that is, according to what are shot at, and we also shoot at them while breeching.

Q. Have you ever seen any seals born in the water, and is it your opinion that it is possible for them to be born in the water?—A. No, sir; I have never seen any born in the water, and I think it is impossible for them to be born in the water. Pelagic birth impossible.

Q. Do you know of any place where seals land out-side of the seal islands?—A. No, sir. Haul up only on Pribilof Islands.

Q. Has there been any decrease in the quantity of seals, as compared to previous years?—A. Well, for the length of time that I have been out there is not much difference. Decrease.

Q. If there is a decrease, to what do you attribute it?—A. To the amount of seal hunters and hunting that is actually going on. Cause.

Q. Do the pups perish with the cows that you kill?—A. Yes, sir; they do.

Q. Is it your opinion if sealing continues unrestricted that they will soon be exterminated?—A. Yes, sir; it is.

Q. In your opinion, is it absolutely necessary to protect the cows in Bering Sea, to prevent the herd from being exterminated? If so, for what months in the year?—A. Yes, sir; from the 1st of June until the 1st of August, in order to protect the herd. Protection necessary.

Q. Do you generally shoot seals with a rifle or shotgun; and if the latter, with buckshot or fine shot?—A. Mostly with buckshot and a shotgun. Shotguns and buckshot mostly used.

Q. Judging by the direction that seals were traveling during your experience, where do you suppose was their destination?—A. I couldn't say as to that; I know they traveled southward to a more milder climate.

Q. Do you think of anything else that is of value in regard to this seal question that I have not asked you; anything you would like to say, you can give your opinion about?—A. No, sir; I think of nothing else in regard to this that I have not already said.

ANDREW JACKSON HOFFMAN.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

I, Clement Bennett, a notary public in and for said city and county of San Francisco, do hereby certify that the witness in the foregoing deposition named was by me duly sworn to testify the truth, the whole truth, and nothing but the truth; that said deposition was reduced to writing, and when completed was carefully read over to said witness, and by him subscribed in my presence.

In witness whereof, I have hereunto subscribed my name and affixed my seal of office this 26th day of February, 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of James Kean, scaler.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

James Kean, having been duly sworn, deposes and says: I reside in Victoria, British Columbia; my occupation is that of a seaman and seal hunter. I first went seal hunting in 1889 on the schooner *Oscar and Hattie*. She had six boats and a stern boat, three men to each boat. She was armed with shotguns and rifles. I shipped as a hunter. We left Victoria the latter part of February and went off south to the Columbia River and commenced sealing off there and followed the herd along the coast up to the Bering Sea, arriving there sometime in June. We caught somewhere about 500 seals before entering the sea, of all kinds. There were a good many females among them; there was a good many more of them than males, but the exact number I do not know. The old females had young pups in them. I saw them taken out, and a good many of them skinned. We entered the sea and caught about 1,000 in there. We sealed all over on this side of the Bering Sea, sometimes being over 150 miles off the seal islands, and sometimes we were closer. I did not pay any attention to the proportion of females, but I know we skinned a great many that were giving milk, because the milk would run from their breasts onto the deck when they were being skinned. We killed mother seals in milk over 100 miles from the seal islands. We generally shoot them when they are asleep on the water.

In 1890 I went out in the *Walter Rich*. She had eight boats, three men to a boat. We had shotguns and rifles, using the former almost altogether. We left Victoria about the latter part of March, and came down off the Columbia River and commenced sealing as the previous year, sealing along the coast to the Bering Sea, arriving there, I think, about the 1st of July. We caught between 300 and 400 seals on the coast, and 600 in the Bering Sea. We sealed on the American side of the Bering Sea around the Pribilof Islands, anywhere from 10 to 150 miles off. The capture of 1890 was about the same in proportion to sex as the year before. We sold our skins in Victoria. In 1889 I received \$4 for every skin I got, and in 1890 I received \$3 for every skin I got. I think I got half of what I killed and wounded. I do not think that the green hunters get more than one out of every four or five that they kill. The seals were not near as plentiful along the coast and Bering Sea in 1891 as they were in 1890. They wanted me to ship this year on a sixth lay, that is, every sixth skin was to be mine, but I thought the seals were so scarce it would not pay

me to go. It is the common conversation among us hunters that the seals are getting so scarce it does not pay for us to go and hunt them unless they will give us a better price per skin, and a great many of the old hunters would not go out this year on that account.

JAMES KEAN.

Subscribed and sworn to before me this 16th day of April, A. D. 1892.
[L. S.]

CLEMENT BENNETT,
Notary Public.

Deposition of James Kennedy, sealer (boat-puller).

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

James Kennedy, having been duly sworn, deposes and says: I am now residing in San Francisco. My occupation is that of a sailor. I went to the North Pacific and Bering Sea on the schooner *Maggie Ross*, of which Captain Olsen was master, in the early part of May, 1884. I shipped as a boat puller. We sailed from Victoria, British Columbia, and bore due north to the Bering Sea. When we arrived there we had some seventy-five to eighty seals, the greater part of which were females, some of which had pups in them. We entered the Bering Sea about the latter part of July and captured 260 seals from 20 to 100 miles off the seal islands. A large proportion of them were females nursing their young, and their teats were large and full of milk. We had four boats aboard, each boat having a hunter, steerer and boat-puller, and used rifles. On an average we got one or two out of every six or seven that we wounded or killed. In 1888, I made a fishing voyage to the Bering Sea, and while in there heard the captain and officers discussing about the decrease of seals on the islands and in the water. I heard it discussed on our return at the different ports we put in at, and also in Victoria on our arrival, and all said the seals were decreasing.

Experience.

Maggie Ross, 1884.

Bering Sea, entering of.

Females in milk 20 to 100 miles from islands.

Waste of life.

Decrease.

JAMES KENNEDY.

Subscribed and sworn to before me this 15th day of April, A. D. 1892.
[L. S.]

CLEMENT BENNETT,
Notary Public.

Deposition of James Kiernan, sealer (master).

ARCTIC AND ANTARCTIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

James Kiernan, having been duly sworn, deposes and says: I am a master mariner by profession, and a resident of California. I have been engaged in seal hunting since

Experience.

Antarctic sealing.

Lobos Island, Castellos Island, Patagonia, and Falkland and South Shetland islands.

Destruction of rookeries.

hunting of the seals. Afterwards I came to California and made my first seal-hunting voyage in the North Pacific in 1868 and in more recent years in Bering Sea. I have given

Arctic sealing.

much attention to the study of seal life as well as to the methods of hunting in the sea and the consequent effect of this upon the possible extermination of the seal. I usually commence the voyage near the coast of California in the early part of January and continue along up the coast, following the herd on its way to its breeding grounds until

Bering Sea, time of entering and leaving.

the latter part of June, hunting all the way and entering Bering Sea about the 1st of July, and remaining in those waters until about the 10th or 15th of September. My experience has been that the sex of the seals usually killed by hunters employed on vessels under my command, both in the ocean and Bering Sea, were cows. I should say that not less than 80 per cent of those caught each

Eighty per cent of those killed cows.

year were of that sex. I have observed that those killed in the North Pacific were mostly females carrying their young, and were generally caught while asleep on the water, while those taken in the Bering Sea were nearly all mother seals in milk, that had left their young and were in search of food. My experience convinces me that a large percentage of the seals now killed by shooting with rifles and shotguns are lost. My estimate would be that two

Mostly pregnant females in North Pacific and nursing females in Bering Sea.

Waste of life.

out of every three killed are lost.

Formerly the killing was done by spearing, and in later years it was learned that shooting them was a swifter method of killing. At the start the hunters were inexperienced and a large proportion were lost. Many are shot while asleep; some while breaching, but such are more difficult to kill. I never have known of seals being

Pelagic birth impossible.

born in the water. In fact I do not believe they are, except by accident, in which cases they would certainly die, as young seals have to be taught to swim by their mother, just as children have to be taught to walk. My knowledge being from long experience, is that the seals are becoming gradually

Decrease.

scarcer in the northern waters, particularly so in later years. The cause of this decrease I believe to be the indiscriminate slaughter of the mother seals. They are hunted too much, and hence mother seals are becoming scarcer, which, if not checked, will lead to their early extermination. Constant shooting has frightened them and made them wild, so that they have to be shot at great distances unless found asleep. Much depends for successful hunting, upon the weather, as it is difficult to get accurate aim when both the hunter's boat and the

Inexperienced hunter.

seal are in motion. A poor hunter does not secure more than one out of every five shot or aimed at. Good hunters do better. I think many of the mother seals go from their breeding grounds on the islands many miles into the Pacific Ocean in search of food, often to a distance of 150 to 180 miles. They travel very fast, and it is on these excursions that many

of them are killed. The mother does not leave the rookery in search of food until she has dropped her young and become pregnant again, hence when she has been slain, it means the loss of three, as the young pup will unquestionably die for lack of sustenance. There is no way, in my judgment, of preventing the seals from being totally exterminated, except by effectually prohibiting the hunting of them, both in the ocean and Bering Sea during their breeding season, say from February until October, on the principle of the gaming laws on the land. The last vessel I went out in was the *Sophie Sutherland*, during the season of 1891. I went as sailing master. The vessel was warned out of the Bering Sea by the revenue cutter *Rush*. She met us near Akatan Island, eastward of Unalaska. We then left the Bering Sea at once and returned to San Francisco. I have often conversed with many other persons, who like myself were engaged in sealing, and they agreed with me in the statements herein made as to the destruction and disappearance of the seals in the northern waters. My view of the matter could, I have no doubt, be corroborated by hundreds of persons experienced in sealing, if they be found. At this season of the year, however, they are absent from the coast hunting and fishing on the ocean.

Females feeding.

Protection by a close season necessary.

Sophie Sutherland.

JAS. KIERNAN.

Subscribed and sworn to before me this 6th day of April, A. D. 1892.

CLEMENT BENNETT,

Notary Public.

Deposition of James Laflin, shipping agent, and managing owner of sealing vessels.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

James Laflin, having been duly sworn, deposes and says: I am 60 years of age. I have resided in San Francisco the last forty-two years. I am by occupation shipping agent for the last fifteen years, and fit out all the whaling fleet that leave this port. All the men go through my office. Have fitted out forty-seven whalers this year and have three more in port to be fitted out. I also fit out sealing schooners—about twelve to fourteen each year. I have also owned one-third interest as managing owner in two sealing vessels. I handle and pay off over 1,600 seamen each year in the whaling fleet alone. I also handle and ship a great many men on the sealing vessels. I often converse with the masters of the vessels relative to the fur-seal, and they tell me that they are scarcer each year, and that it is much harder to make a voyage than it used to be. I have often heard them say that they only get two or three out of a school, and when they kill them, if they do not get them right away, they will sink and are lost. Further, that they lose a good many that they kill, and that a good many have pups in them, and that when the boats come aboard loaded with seal and they get through the skinning of them they would have a big pile of pups on deck.

Experience.

Decrease.

Waste of life.

From my experience in dealing with the people interested in sealing, and from my own personal observation, I know the seals are decreasing very fast in Bering Sea, and it is a common remark among seamen who ship on sealing vessels that they do not care about going, for there is nothing in it, and only those will ship that are hard up and can get nothing else to do. It is very important that the seals be protected in the waters of the North Pacific and Bering Sea from being killed by hunters, or they will be so near exterminated in a short time that it will pay no one to hunt them.

JAMES LAFLIN.

Subscribed and sworn to before me this 16th day of April, A.D. 1892.

[L. S.]

CLEMENT BENNETT,

Notary Public.

Deposition of Isaac Liebes, furrier.

PELAGIC SEALING AND GENERAL SEAL-SKIN INDUSTRY.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Isaac Liebes, having been duly sworn, deposes and says: I reside in San Francisco, Cal. I am, and have been for the last twenty-three years, by occupation a fur merchant, during which time I have handled more raw fur-seal skins than any other individual in the United States or Canada, and more than any firm or corporation except the lessees of the sealeries of the Pribilof and Commander islands. I claim to be thoroughly acquainted with all kinds of seal skins, and from all the different localities, and can readily distinguish one from the other. I am also thoroughly familiar with the mode of capturing the seals, both on land and in the water, and in handling, packing, and shipping the skins. My business as a manufacturer of furs has also made me equally familiar with the dressed and dyed seal skins. The greater part of the raw seal skins which have passed through my hands were from seals captured at sea, and it is with this feature of seal hunting that I am more especially familiar. I speak from personal observation and experience in describing the marine sealing fleet, and the business of marine seal hunting.

The sealing fleet is comprised almost exclusively of small schooners, carrying from five to thirty men, some of the crew being exclusively white men and some of them mixed, white men and Indians. They are fitted with the necessary boats, guns, spears, gaffs, water butts, and other implements required for seal killing and to enable the hunters to remain away from the vessel in their boats for several consecutive hours. The vessels leave port, the most of them going out either from Victoria or San Francisco in the early spring, and commence their season's work off Cape Flattery in April or the early part of May. They then follow the seals upon their northward passage towards Bering Sea and finally, in June or early in July, into those waters, killing every animal possible as they go. They formerly commenced their voyages still

Sealing fleet, size and outfit of.

Sealing on coast begins in April or early part of May.

Time of entering Bering Sea.

further south along the California coast, but as seals have become scarcer, they do not, in the last year or two, get many south of the Oregon coast. Of the class of seals taken I can say, from personal observation on board sealing vessels, as well as from knowledge gained in buying and handling the skins from seals killed in the Pacific, that in the spring 95 per cent of them are cows heavy with pup; 4 per cent are pups less than 1 year old, born the previous summer, and 1 per cent males, most of the latter not exceeding 2 or 3 years old. The number of seals actually secured to the number killed does not exceed about one in four, or about one is taken for every three destroyed, varying, of course, with the skill and experience of the hunters.

Percentage of cows, pups, and males taken.

Waste of life.

The average market value of seal skins taken in the water as compared with that of animals properly selected on the seal islands, either of Alaska or Siberia, is about one-third. The former are mostly pregnant cows, the fur of which is thin and poor, compared with the males, and the skins are riddled more or less with bullets and buckshot, making them practically unfit for first-class garments.

Market value of pelagic skins.

Of late years most of the catches of northwest skins are sold at a certain price per skin, without particular examination. The dealers, knowing the location from which the skins are obtained, make an average price, and owners and hunters are, therefore, less particular than they were in former years as to the class of animals they capture. They kill everything they see without regard to age or sex, their only object being to swell the total number of the catch to the highest possible figure.

Indiscriminate killing.

I have noticed in examining the skins of the northwest or "Victoria catch" during the last two years that they average much smaller in size than they formerly did. The large breeding cows, of which this catch used to contain a considerable percentage, are now almost entirely absent, showing conclusively that the old stock has been exterminated, and the supply upon which they are now drawing is comprised of younger animals.

Decreased size of skins.

The practice of using shotguns charged with buckshot is working havoc in the seal herd. The shots scatter, and many animals are wounded and escape that afterwards die of their wounds. This is conclusively proved by the fact that many skins known to the trade as "stinkers" are brought in and offered for sale; so called because they have been taken by passing vessels from seals found dead on the surface of the water. It is well known that seals which are killed at sea and sink beyond the reach of the hunter's gaff rise to the surface after decomposition sets in. Naturally, those thus picked up are but a small part of the number that actually perish in the water, in consequence of their wounds. If all the seals were taken as they were by the Indians in former years, by spearing, their destruction would be nothing near as great as it is. If the spear dart touches the animal but lightly he goes off with a slight wound and quickly recovers, while if it fairly penetrates his body his capture is reasonably certain, for the spear is attached by a line to the canoe, and the seal can not escape. Unfortunately, a great majority of the seals are now killed with guns instead of spears.

Havoc with shotgun.

Superiority of spear.

The idea of capturing seals in the water, when they are farther off

shore than the Indian canoes can safely follow them, originated in San Francisco. A single schooner was fitted out and met with success. She was afterward joined by others, and finally by a small fleet, nearly all American vessels.

I feel confident that this entire seal-hunting business would have remained in the hands of San Franciscans, and been controlled from this port under the American flag, had it not been for the action of our Government in discouraging and forbidding the participation of American vessels in the taking of seals. When it became known that British vessels then engaged in the trade were receiving protection and privileges denied to American sealers, steps were at once taken to

Transfer of American vessels to the British flag.

place many of the American fleet under the British flag. If the business had been kept in San Francisco I do not believe it would have reached its present proportions. But if it had we should still have the pleasure of deriving the benefit from it which now goes to the Canadians.

I am very well acquainted with the class of vessels engaged in sealing. The most of them are of less than 100 tons burden, and a fair estimate of their average value would be, I should say, about \$4,500 per vessel, for both the American and British fleet, and about \$2,000 would cover the average cost of an entire outfit for a season's work. The total value of the Canadian sealing fleet is not, after all, as much as the sealers would lead us to suppose from their representations.

Cost of average vessel and outfit.

The quantity of northwest or "Victoria" seals that were dressed and dyed in the United States for home consumption, and never reached the London market, I estimate as follows: 1889, 6,000; 1890, 4,500; 1891, 2,100. These estimates are made up from memoranda I have been accustomed to keep from time to time of the number of skins offered for sale, and which did not go forward to London as shown by the trade sale catalogues.

Home consumption of skins.

I have known of several expeditions that have been fitted out for the purpose of following and capturing the seals after they leave the Pribilof Islands and are making their southern course. All these expeditions have proved utter failures, which is accounted for by the fact that the female seals at that period of the year are not heavy with young as they are in the spring, nor as fat as at a later period, and the hunters can not easily get within gunshot distance of them. They are much less likely to be found asleep at this season, and traveling seals are difficult to shoot and still more difficult to take in before they sink. The hunters have an idea that the sleeping seals are buoyed up by an inflated internal air bladder. Whether this is so or not it is certain that a "sleeper" is more likely to be secured after it is shot than a "traveler."

Failure of expeditions to hunt seals after leaving the islands.

The male seals of merchantable size do not intermingle, I believe, to any extent with the cows caught off the coast of North America. They make their northern passage separate from the others, and further off shore. As they are more constantly on the alert than the females, the sealers have met with little success in hunting them. It is only the cow, heavy with pup, which, in consequence of her condition, is less active and alert, that falls an easy prey to the hunters.

I have never known of any pup seals being caught in the water (except those in embryo) that were less than several months old, nor are any such ever offered to the trade, showing conclusively to my mind that they are not born at sea. The Indians

Males and cows do not mingle in herds off coast.

Not born in water.

frequently offer "black pups" for sale, but only such as they have removed from the womb of the mother seal. The breeding seals, as far as I can learn from extended inquiry, do not come upon land, except at their regular rookeries, and there are none of those outside of the Bering Sea islands and Robben Bank. Handled only on the islands. Young seals are sometimes driven for a few hours by stress of weather into the inlets about the Straits of Fuca and vicinity.

The seals to which I have thus far had reference are known to myself and to the trade as the Northwest Coast seals, sometimes also called "Victorias." This herd belongs solely to the Pribilof Islands, and is easily distinguishable by the fur from the fur-seals of the other northern rookeries, and still easier from those of the south. All expert seal-skin assorters are able to tell one from the other of either of these different herds. Each has its own characteristics and values. Northwest and Alaska seals identical and differ from other herds.

Owing to the decrease of fur-seals on our own coast marine hunters have, during the last few years, turned their attention to the Asiatic waters, and are now hunting them there. These Asiatic seals have their breeding grounds on the Commander Islands and Robben Banks. Last year several additions were made to the Asiatic fleet and large catches were secured in those waters, including the fitting out of still further expeditions this season for the same business. The distance is so great from this coast, and typhoons are so liable to be encountered, that much larger vessels are fitted out and equipped with more boats to each vessel than on the American side of the Pacific. Unless restricted, they will in a very few years, by the destruction of the breeding seals, deplete these rookeries, as they have those of Alaska. In fact, two years ago last year this depletion had already become apparent, and last year the Russian officer in charge ordered the catch to be reduced. I feel convinced, and it is the opinion of others familiar with the business, that it will be impossible for the company having the privilege of sealing there to take this year even the 30,000 to which the quota is now reduced. Hunting being transferred to Asiatic waters.

I find in handling the skins taken in Bering Sea that the teats of those from the cow seals are much larger and more developed than from the ones taken in the North Pacific before they have given birth to their young; and the fur on the belly of the former is thinner and poorer than on the latter, as the result, I suppose, of the heat and distension of the udder consequent upon giving milk. Difference in condition of Northwest and Alaska skins.

There can be no question, in my opinion, about the ultimate result to the rookeries of marine sealing. If it is continued as it has been for the last two or three years the seals will be so nearly wiped out of existence in a short time as to leave nothing to quarrel about; and an article of commerce that has afforded a vast amount of comfort and satisfaction to a large class of wearers and a large income to both American and British merchants will be a thing of the past. Protection necessary.

ISAAC LIEBES.

Subscribed and sworn to before me this 16th day of May, A. D. 1892.
[SEAL]

CLEMENT BENNETT,
Notary Public.

Deposition of Caleb Lindahl, sealer (master).

ARCTIC AND ANTARCTIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Caleb Lindahl, having been duly sworn, deposes and says: I am 46 years of age. I reside in San Francisco. My occupation is that of a sealer. I first went sealing in the Bering Sea in 1890 on the *Mattie T. Dyer*. I was employed as a hunter. Our intention was to catch seals before we entered the Bering Sea. We left San Francisco in the latter part of April, but caught no seals between here and Sanak. We sealed from there to the Akatan Pass and caught 75 seals, mostly females with pup. Some of the young they had inside were quite grown, but of course you could not tell when you shot a seal lying asleep whether it was a male or female. We entered the Bering Sea in the latter part of May. We caught no seals in the Bering Sea. Had no boats out. The *Mattie T. Dyer* was seized soon after she entered the Bering Sea. We shoot at all the seals we get a chance, but it is only the ones that we find asleep that we catch. On an average a hunter gets one seal out of four. Some hunters do not get that many, because the seals sink out of sight after they are killed before we can get them. I have known of poor hunters losing nine out of ten. We left on the *Hancock* in October, 1891, to go on a sealing expedition in the south seas. We started in sealing off the coast of Patagonia and sealed in those seas until March. The seals are nearly all killed off down there, so that we got only about 20 skins. It is no use for vessels to go there sealing any more. I was there twelve years ago on a sealing expedition and the rookeries were full of seals. Now they have most all gone. They never gave the seals a chance to breed there. They shot them as soon as they came up on the rocks.

If they keep on hunting them in the Bering Sea and the North Pacific in the same way they have done in the last few years, they will exterminate them in the same way, because most all the seals killed are females. The young ones will all die, and every female seal you shoot makes the killing of two, because after the seal has given birth to her young the pup will starve to death on the land, or when you shoot them in the water they may have a pup inside. If the seals on the South Shetland Islands had been protected, I think they would have been there by the million, because in one year they took 300,000 seals from the Shetland Islands. I have very often cut a seal open and found a live young one inside. I was codfishing in the Bering Sea in the schooner *Hancock* in 1891. Where I fished there were no seals that came around that part of the sea. From what I learned when fishing in the Bering Sea there are not nearly as many seals there as there were ten years ago.

CALEB LINDAHL.

Subscribed and sworn to before me this 9th day of April, A. D. 1892.
[L. S.]

CLEMENT BENNETT,
Notary Public.

Deposition of E. W. Littlejohn, sealer (master).

PELEGIC SEALING.

E. W. LITTLEJOHN, being duly sworn, deposes and saith: I reside at San Francisco, Cal. I am a sea otter and seal hunter by occupation, and am now master of the schooner *Pearl*, which is engaged in sea-otter hunting. I have had eight (8) years experience in this pursuit in the waters along the Alaskan coast. In the year 1885, six hundred (600) fur-seals were caught during the month of March off the Farallon Islands (California). In subsequent years we have had to go farther north each year in order to secure a good spring catch. My experience has been that fully 90 per cent of all sealstaken were females, and of these two-thirds ($\frac{2}{3}$) were mothers in milk. It is impossible to distinguish the sex of fur-seals at sea (excepting large bulls), and no effort is made to do so, the object being to secure all the skins possible; hence the killing is indiscriminate. I have observed a very great decrease in fur-seal life since 1885, and believe it is almost entirely due to the large number of vessels engaged in pelagic hunting. I never saw pups born in the water, nor do I know of any fur-seals hauling up on the land anywhere save the rookeries on the various seal islands in Bering Sea. I believe that in order to preserve fur-seal life it is necessary to absolutely stop pelagic hunting and maintain a close season against killing for skins on the Pribilof Islands.

Experience.

Catch off Farallons in 1885.

90 per cent taken females, of which two-thirds nursing.

Indiscriminate killing.

Decrease.

Not born in water.

Haul up only on islands.

Protection necessary.

E. W. LITTLEJOHN.

Subscribed and sworn to before me this 13th day of April, 1892.

JOSEPH MURRAY,
*United States Treasury Agent.**Deposition of William H. Long, sealer (mate and master).*

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

William H. Long, being duly sworn, deposes and says: I am by occupation a seaman, and have followed the sea for the last fifty years. I have been mate and master of vessels. For the last four years I have not been to sea. In 1885 I was hunter on board the schooner *Lookout*; in 1886 I was mate of her; in 1887 I was master of her. I was engaged during these years in seal and otter hunting in the Bering Sea. The seals appear off the coast outside of the heads in the early part of January. They are traveling all the time north, and from that time on to June they are traveling towards the Bering Sea. I used both shotguns and rifles. I know that a large proportion of the seals taken were mothers in pup, or mothers giving milk, but I paid no particular attention to the percentage. In killing seals

Experience.

Lookout, 1885-1887.

Appearance of seals off coast.

They are traveling all the time north, and from that time on to June they are traveling towards the Bering Sea.

Large proportion taken pregnant or nursing cows.

in the Bering Sea, during the months of June, July, August, and September, I noticed that a large number of them were females and mothers giving milk. I have killed mothers in milk all the way from 10 to 200 miles off shore. The average hunter will fire ten times to get one seal. I think on an average he gets about one seal out of every three killed. Mother seals heavy with young are much easier taken, for they are usually asleep on the water. When a seal is shot dead it almost instantly sinks, and it is only secured by stunning it. It is impossible to tell the sex of a seal in the water. The seals were much less plentiful the last year I sealed than the first. I attribute this decrease to the hunting of them in the water, and the increased number of boats and men engaged in the business in the last few years. I think if something is not done to protect seals in the North Pacific and Bering Sea they will become exterminated in a very few years.

Nursing cows killed in Bering Sea 10-200 miles from islands.

Waste of life.

Indiscriminate.

Deercase.

Protection necessary.

WILLIAM H. LONG.

Subscribed and sworn to before me this 1st day of April, A. D. 1892.
[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Charles Lutjens, scaler.

PELAGIC SEALING.

Be it remembered that on the 26th day of February, 1892, at my office, 434 California street, in the city and county of San Francisco, State of California, before me, Clement Bennett, a notary public in and for said city and county of San Francisco, State of California, duly appointed and commissioned to administer oaths, etc., personally appeared Charles Lutjens, who, being first duly sworn, testified as follows:

CHARLES LUTJENS, having been duly sworn, testified as follows:

The NOTARY:

Q. What is your name, age, residence, and occupation?—A. My name is Charles Lutjens; I am 50 years of age; I reside in this city, and am by occupation a seal hunter.

Pelagic sealing.
Experience.

Q. Are you a citizen of the United States?—A. Yes, sir.

Q. What State are you a resident of?—A. The State of California.

Q. Do you know of what sex the seals were that you have taken in the Pacific and Bering Sea?—A. Principally females.

Q. What percentage of the skins you have taken were cows?—A. About 90 per cent.

90 per cent of seals taken are females, 70 per cent of which pregnant.

Q. What percentage of the cows you have taken were with pup?—A. About 70 per cent, I should say.

Commencement and end of sealing season.

Q. When does sealing commence in the Pacific and when does it end?—A. It commences about the 1st of January and ends about the last of June.

Q. When does sealing commence in the Bering Sea and when does it end?—A. Sealing commences in the Bering Sea about the 5th of July and ends about the middle of September.

Waste of life.

Q. What percentage of seals are taken compared to those you destroy in doing so; in other words, how

many do you actually get out of those you shoot?—A. I should say we get about 80 per cent of those we shoot.

Q. Is it not a fact, that when you first started in the business, and was inexperienced in hunting, that you, like all other beginners, destroyed a much larger proportion than you now do?—A. There is no doubt about that.

Q. Are the seals you shoot at mostly asleep on the water or awake?—

A. Asleep.

Q. Do you shoot at them while breeching?—A. We shoot at them anyway we find them.

Q. Have you ever seen any seals born in the water, and is it your opinion that it is impossible for them to be born in the waer?—A. Seals can not be born in the water. Pelagic birth impossible.

Q. Do you know of any place where seals land out-
outside of the seal islands?—A. No, sir; I know of no place. Haul up only on islands.

Q. Has there been any decrease in the quantity of seals as compared to previous years?—A. There has been a decrease. Decrease.

Q. To what do you attribute the decrease?—A. To the hunting of the seals in the Bering Sea.

Q. Do the pups perish with the cows that you kill?—A. Certainly. Not alone that, but they generally leave, while they go into the Bering Sea, a pup on shore, which also dies, from not being able to get any sustenance. The seal which is killed in the Bering Sea may be with pup, and also has a pup on shore, which make the killing of three seals to one. Dead pups.

Q. Is it your opinion, if sealing continues unrestricted, that they will soon be exterminated?—A. Yes, sir; they will get less and less, and will soon be exterminated if all sealing is not stopped in the Bering Sea and on the islands. Protection necessary.

Q. In your opinion, is it absolutely necessary to protect the cows in the Bering Sea, to prevent the herd from being exterminated?—A. It is absolutely necessary.

Q. What months in the year do you think they should be protected?—A. The months when they are in the Bering Sea, from July 5th to November 1st. Close season.

Q. Do you generally shoot seals with a rifle or a shotgun?—A. A shotgun principally.

Q. What kind of shot do you use, buckshot or fine shot?—A. Buckshot. Weapons.

Q. Judging by the direction that seals were traveling in the spring of the year, during your experience, where do you suppose was their destination?—A. The Bering Sea. Migration.

CHARLES LUTJENS.

STATE OF CALIFORNIA,

City and County of San Francisco, ss :

I, Clement Bennett, a notary public in and for said city and county of San Francisco, do hereby certify that the witness in the foregoing deposition named, was by me duly sworn to testify the truth, the whole truth, and nothing but the truth; and that said deposition was reduced to writing, and when completed was carefully read over to said witness, and by him subscribed in my presence.

In witness whereof I have hereunto subscribed my name and affixed my seal of office, this 26th day of February, 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Thomas Lyons, sealer (boat-puller).

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss :

Thomas Lyons, having been duly sworn, deposes and says: I reside in San Francisco. My occupation is that of a seaman. Experience. On the 24th of February, 1887, I left the port of Victoria, British Columbia, on a sealing voyage to the North Pacific and Bering Sea. I went on the schooner *Triumph*, of which Triumph, 1887. Capt. Cox was master. I was engaged as a boat-puller. We went first south as far as Cape Blanco, sealing around there for about two months, when we started north to the Bering Sea. We were sealing all the way up and succeeding in capturing 138 seals before entering the Bering Sea. The majority of those were Majority taken cows, mostly pregnant. I know that from the fact of seeing them taken out and thrown overboard. Bering Sea, time of entering. We went into the Bering Sea about the 26th or 28th of June, and while in there we caught Nearly all taken nursing seals. 389 seals, nearly all of which were mother seals in milk, which fact I know from seeing the milk flow on the deck while we were skinning them. We took them a good ways from the islands, but do not know how many miles. We had six boats, and a hunter, boat-puller, and steerer for each boat, and used shotguns. Waste of life. The hunters would get on an average two out of every six that he wounded or killed. Seals were quite plentiful at that time, and there were lots of them destroyed that we did not get.

THOMAS LYONS.

Subscribed and sworn to before me this 15th day of April, A. D. 1892.

[L. S.]

CLEMENT BENNETT,
Notary Public.

Deposition of William McIsaac, sealer (boat-steerer and puller).

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss :

William McIsaac, having been duly sworn, deposes and says: I am a sailor, and reside at San Francisco. I went to the Bering Sea in the American schooners *Alexander* and Alexander, 1889. *Otter* in the years 1889 and 1890. We commenced hunting off the coast here and followed the seals toward the Bering Sea. I was employed as boat-steerer and puller. The

schooner had four hunting boats, and each boat had a boat-steerer, a puller, and a hunter. We left here in the *Alexander* in the latter end of April, and arrived in the Bering Sea about the month of July. We caught about 400 or 500 seals before we got to the Bering Sea. I don't know the precise number. They were bulls and females mixed in, but the general run of them were females. The hunters shot with rifles and used cartridges and shot at all kinds they saw. They also had double-barrel shotguns and made their own cartridges. The hunters lost a good many of the seals that they shot, because they could not get up quick enough to get them before they would sink. We would use a hook to spear them, but sometimes we could not often get hold of them even with that. The bulls generally sunk quicker than female seals.

Catch in Pacific mostly females.

Waste of life.

When we skinned the females that we killed in Bering Sea we would find they were mothers in milk, as the milk was running out of their teats. Several of the females that we caught in the ocean were in pup, but the pup taken out of the belly was of no use for anything, and we would throw it overboard. Taking the general average, we would not get more than 2 seal out of every 10 that the hunters shot at. Out of every 65 seal that was brought aboard the schooner I got 1, so I tried to spear as many as I could after they were shot. We caught more seals in the Bering Sea than we did going along the coast, as we found more of them. We did not come across any revenue cutters. We saw with the aid of a glass a revenue cutter a long distance off. We would catch them all the way from 100 to 300 miles off the seal islands. When we had fine weather we were out in the boats killing all the seals we could get. We could not hunt in rough weather. All the seals that we shot at in rough weather were lost. In fine weather they sleep on top of the water and we do not lose so many of them. We made the same sort of voyage in the *Otter* in 1890. There were not as many seals in 1890 as there were in 1889. I think there are so many boats and hunters out after them that they are being killed off. They are hunted too much.

Nursing females taken in Bering Sea.

Waste of life.

Sealing 100 to 300 miles from the islands.

Otter, 1890.

Decrease.

WILLIAM McISAAC.

Subscribed and sworn to before me this 8th day of April, A. D. 1892.

CLEMENT BENNETT,
Notary Public.

Deposition of William McLaughlin, sealer (boat-puller).

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss :

William McLaughlin, having been duly sworn, deposes and says: I reside in San Francisco; my occupation is that of a seaman. I shipped as a boat-puller in 1886, on the schooner *Triumph*. We had six or seven boats on board, three men to a boat, and we used shotguns and

Experience.

Triumph, 1886.

rifles. We left Victoria about the latter part of February, and sailed around Cape Flattery, sealing there for awhile. Then we sailed north to the Bering Sea, sealing all the way along the coast. We had 300 or 400 seals altogether before entering the Bering Sea; they were most all females, which had young pups in them.

Catch in Pacific mostly pregnant females.

We entered the sea about the middle of June and sealed around the Pribilof Islands, sealing from 5 to 10 miles and sometimes 40 miles off the islands. I do not remember the number of seals that we got in the Bering Sea, but they were mostly mother seals with their breasts full of milk. We got about one out of every five that we killed or wounded. There was any amount of them that we shot and did not get at all. It seemed as if a good many got away.

Bering Sea, time of entering.

Mostly nursing females taken in Bering Sea.

Waste of life.

In 1887 I went codfishing in the barkentine *Premium* to the Bering and Okhotsk seas. We left San Francisco in April. We saw seals that year, but the captain did not bother with them. I went to the Bering Sea on the *Maggie Ross* from Victoria, of which Captain Olsen was master. I shipped as a boat-puller. She had six boats, three men to a boat, and we used Spencer rifles. We sailed from Victoria in June and went due north, and commenced sealing in the Bering Sea, catching about 400 seals. We hunted around the islands there, from 50 to 60 miles offshore. Most of those were females that had given birth to their young and were with milk. We had some white hunters and Indian hunters. I do not think that we lost as many that year in proportion to those that we killed as we did in the *Triumph*. We got about one out of every three killed and wounded. They were better hunters. I was also codfishing in 1884. There were a great many more seals in the water then than there was in 1889. In 1884, when we were cod-fishing, we met the steam whaler *Thrasher*, and I heard the captain remark that it was a damned shame the way they were killing the female seals in the Bering Sea.

Catch in sea mostly nursing cows.

Waste of life.

Decrease.

and wounded. They were better hunters. I was also codfishing in 1884. There were a great many more seals in the water then than there was in 1889. In 1884, when we were cod-fishing, we met the steam whaler *Thrasher*, and I heard the captain remark that it was a damned shame the way they were killing the female seals in the Bering Sea.

WM. McLAUGHLIN.

Subscribed and sworn to before me this 15th day of April, A. D. 1892.
[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Thomas Madden, sealer (boat-puller).

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Thomas Madden, having been duly sworn, deposes and says: I reside in Victoria, British Columbia. My occupation is that of a seaman. I have been going to the Bering Sea over twelve years on whalers and sealers. I went sealing in 1888, 1889, 1890, and 1891 on the *Black Diamond*. We left Victoria along in January of each year. I was a boat-puller. We came down each year to the coast of Oregon, then went along up the coast to the Bering Sea. I do not recollect the exact number of seals we caught in 1888, 1889, and 1890, but last year we caught about 150 along the coast. I did not

Experience.

Black Diamond, 1888-1891.

Catch in 1891.

pay much attention to the sex of the seals, but I seen lots of little pups taken out of them. Each year we would enter the Bering Sea about June, and we sealed from 50 to 150 miles from the islands. The first year we caught about 700 seals in the sea, and we caught very big catches in 1888 and 1889, but last year we only caught 150. Most of them were cow seals, having given birth to their young, and their breasts had milk in them. I saw the milk running out of their breasts on the deck as they were being skinned. The seals were not nearly as plentiful in 1891 as they were in 1888. I think they are decreasing rapidly. We had Indian hunters, who used shotguns. The Indian hunters are more expert than the white hunters and they do not lose so many seals they kill. I think they would get one out every two or three killed or wounded. We were ordered out of the Bering Sea in August and went back to Victoria.

Bering Sea, time of entering.

Mostly nursing cows taken.

Decrease.

Waste of life.

Ordered out of Bering Sea.

his
THOMAS X MADDEN.
mark.

Subscribed and sworn to before me this 15th day of April, A. D. 1892.
[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of James Maloy (sealer).

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

James Maloy, having been duly sworn, deposes and says: I am 50 years of age. I reside in San Francisco. My occupation is that of a seaman. I was in the North Pacific and Bering Sea in 1889. I went out in the *Maggie Ross*, which sailed from Victoria in the month of February. We sailed up the coast and caught a few seals, until we got to the Bering Sea. We caught 1,100 seals, nearly all of which were caught in the Bering Sea. We caught them around St. George Island. I think out of the 1,100 we caught there were 600 females. Out of that 600 there were over 400 that had pups inside of them, and we threw them all overboard. We had eight boats, each boat having a boat-puller, steerer, and hunter. The hunters used rifles and shotguns. I do not think our hunters got one-half of those they killed or wounded. They would sink before we could get our boat up to them. I have given up the sealing business because the slaughtering of the female seals is making them so scarce that it does not pay. Something, certainly, should be done to stop the killing, or there will be none left in a very short time.

Experience.

Maggie Ross, 1889.

Catch in Bering Sea.

Fifty-four per cent females, of which two-thirds pregnant.

hunter. The

Waste of life.

Decrease.

Protection necessary.

JAS. MALOY.

Subscribed and sworn to before me this 13th day of April, A. D. 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Patrick Maroney, sealer (boat-puller).

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Patrick Maroney, having been duly sworn, deposes and says: I reside in San Francisco. My occupation is that of a seaman; I made two voyages to the North Pacific and Bering Sea. In 1889 I went out in the *May Ellen*, of which Capt. Alex. McLean was master, and in 1890 I went out in the *Lizzie Ellen*. I was a boat-puller on both voyages. We sailed from San Francisco about Christmas, in 1889, and hunted along the coast up to about July. We took 130 seals off the coast and put them ashore with Mr. Morse, and then went on sealing toward the Bering Sea. Along about the 1st of July we entered the Bering Sea and caught about 123 seals when we came back to Victoria and I left the vessel as Captain McLean got into some trouble. The biggest part of our year's catch off the coast were females with pups in them, and those we caught in the Bering Sea were mostly all females with milk in their breasts. We used shotguns with No. 12 shot. When we had to shoot at long range we used rifles. Mostly all the seals we shot at were sleepers. When they were wounded we had to chase them, and then sometimes would not get them. The next season, 1890, we got on the way up between 100 and 200 seals, and then we entered the Bering Sea about the 18th or 19th of July, and I caught 90 seals, mostly all females. There were six boats on the vessel. Some of the boats would come in without a seal, after being out all day long shooting, but they would wound a great many. On an average, taking all the boats together, they got one out of every five or six that they killed or shot at. We wounded a great many that we could not get. When we were in Bering Sea we hunted from 40 to 200 miles off the seal islands.

Experience.

*May Ellen, 1889.**Lizzie Ellen, 1890.*

Bering Sea, time of entering.

Catch mostly pregnant and nursing females.

Weapons.

Bering Sea, time of entering.

Catch mostly females.

Waste of life.

Hunted from 40 to 200 miles from islands.

his
PATRICK X MARONEY.
mark.

Subscribed and sworn to before me this 12th day of April, A. D. 1892.
[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Henry Mason (sealer).

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Henry Mason, having been duly sworn, deposes and says: I am 43 years of age and reside in San Francisco. My occupation is that of a seal hunter. I went sealing on the *Umbrina* in 1891. We sailed from Victoria on the 8th

Experience. 1891.

of April, and sealed along the coast up to Akutan Pass. We caught about 300 seals in that vicinity. Mostly all were females and a great many of them had pups in them. We cut the seals open and saw the young inside. We caught a few seals in the Bering Sea and then were ordered out and sent back to Victoria. Those that were caught in the Bering Sea were mostly females and had had pups and were in milk. In 1890 I went sealing in the schooner *Argonaut*. She sailed from Victoria about the 8th of April, and sealed along the coast up to the pass in the Bering Sea. We caught about 350 seals that year.

Mostly females taken.

Ordered out of Bering Sea.

Argonaut, 1890.

Most all the seals we caught in the North Pacific were females. A good many of them also had pups inside. Then we went into the Bering Sea sometime in July or August. We caught about one-half of our catch in the Bering Sea. I did not pay particular attention to the sex of the seals we caught in the Bering Sea. We hunted with shotguns and shot them mostly when they were asleep on the water, or any chance we could get. I was a boat-puller and the hunters shot at everything in sight. I do not think they would get more than one seal out of every six or seven they shot, and sometimes only one out of ten. When the seals were shot they would sink to the bottom. You have got to hurry up and pull to them quickly after shooting, or they will sink. A great many were shot that we could not get, as they sunk before we got to them.

Mostly females taken.
Bering Sea, time of entering.

Indiscriminate killing.

Seals sinking.

H. MASON.

Subscribed and sworn to before me this 8th day of April, A. D. 1892.
[SEAL.] CLEMENT BENNETT,
Notary Public.

Deposition of William Mason, sealer (boat-puller).

PELAGIC SEALING.

STATE OF CALIFORNIA,
City and County of San Francisco, ss:

William Mason, having been duly sworn, deposes and says: I am a seaman by occupation, and I reside in Victoria, British Columbia. I made a sealing cruise in the British schooner *Maybelle*, Capt. Hanson, during the season of 1891, leaving Victoria in the latter part of January, I was a boat-puller and got \$30 a month and 25 cents a skin. We commenced sealing on the coast of Oregon, and followed the herd along the coast up to the Bering Sea. We got about 275 seals along the coast and then went into the Bering Sea in the latter part of May or fore part of June, and sailed around in the American waters. We cruised around the Pribilof Islands from 5 to 100 miles off. We caught about 300 seals in the sea, and was then ordered out by a revenue cutter which I believe was the *Rush*, in the latter part of August, but we did not go. We sealed around for several days and caught about 250 more, and arrived at Victoria in Octo-

Experience.

Maybelle, 1891.

Bering sea, time of entering.

Catch in sea.

Ordered out.

ber. I noticed in the seals that we caught along the coast that a great many of them were females and had pups. I think most of them were females. I know that in my boat the catch was most all females and they had pups in them. They were usually shot when sleeping on the water. About two-thirds of those caught in the Bering Sea were females that had big teats and were giving milk. We could tell that when we were skin-

Waste of life.

ing them, because the milk would run out on the decks. Our hunter was a good one. His name was Joe Williams. I think he got one out of every three on an average. He used a rifle a good deal and was a fine shot; some of the hunters in the other boats would shoot at the seal and not get any at all, and come in at night without any, or maybe one or two. There was one hunter from Nova Scotia that did not kill any scarcely. The hunter in

Wages of sealers.

my boat last year got \$7 a skin. This year they only wanted to pay me \$18 a month and 25 cents a skin, and only wanted to give the hunters one skin out of every six. The hunters say the seals are getting scarcer all the time, and that it does not pay to go unless they get more for a skin.

Decrease.

WILLIAM MASON.

Subscribed and sworn to before me this 16th day of April A. D. 1892.

[SEAL.]

CLEMENT BENNETT,

Notary.

Deposition of G. E. Miner, sealer (hunter).

PELAGIC SEALING.

G. E. Miner, being duly sworn, deposes and says: I am a seal hunter by occupation; have been engaged for the past five years in sealing, always as hunter. Shotgun and rifle have been used by me for taking seal. Am at present hunter on the schooner *Henry Dennis*. First hunted seals off the Faralone Islands in February, and followed them up the coast into Bering Sea, which they enter about the 10th of July. I think the seals are constantly on the move up the coast. I think about 33 per cent of the seals shot with a shotgun are lost. I use no discrimination in shooting seals; shoot everything that comes near the boat, and all other hunters do the same. A large majority of the seals killed in the North Pacific are cows with pup, and in Bering Sea, cows with milk. Few yearlings are killed every year by me. Of the male seals killed a majority are 4-year-olds. I have killed but a few old bulls. If a seal is killed instantly when he first puts his head above water he will sink at once. I think seals are not as plentiful as they used to be, caused, I think, by the indiscriminate killing of females with pup. Have never known of pups being born in the water, or anywhere else on the coast of Alaska outside of the Pribilof Islands. Have never known seals to haul up on the coast of Alaska outside of the Pribilof Islands. Have

Experience.

have been used

Migration.

Indiscriminate killing.

Large majority of cows killed pregnant and nursing.

Decrease.

No pelagic births.

Do not haul up on Alaskan coast.

killed seals 250 miles from the Pribilof Island, with milk. I think if all sealing was prohibited from January 1, to August 15, in the North Pacific Ocean and Bering Sea it would give sufficient protection to the seal.

Protection.

G. E. MINER.

Subscribed and sworn to before me this 21st day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of Eddie Morehead, sealer (boat-puller).

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Eddie Morehead, having been duly sworn, deposes and says: I am 21 years of age; I reside in San Francisco; my occupation is that of a longshoreman. I have been employed on a sealing vessel as a cabin boy and boat-puller; I made one voyage on the *Vanderbilt* in the North Pacific in 1888; we did not go in the Bering Sea. We left in the early part of March; she was lost on that voyage in a storm, going ashore at company's harbor. We caught between 500 and 600 seals. We commenced shooting along the coast of California, following the seals to the Aleutian Islands. We had six small boats on board, each boat having three men, a hunter and two men to pull. They shot both with rifles and shotguns. The rifle was considered the best to use, as the shotgun would wound more. We shot at everything in sight. We killed more females than males, and we lost a good many that we killed. I never saw nor heard of any young pups being born in the water. The shooting was all done from the small boats.

Experience.

Vanderbilt, 1888.

Indiscriminate.

Majority killed females.

ED. MOREHEAD.

Subscribed and sworn to before me this 4th day of April, A. D. 1892.
[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Frank Moreau, sealer.

PELAGIC SEALING.

Be it remembered, that on the 26th day of February, 1892, at my office, 434 California street, in the city and county of San Francisco, State of California, before me, Clement Bennett, a notary public in and for said city and county of San Francisco, State of California, duly appointed and commissioned to administer oaths, etc., personally appeared Frank Moreau, who, being first duly sworn, testified as follows:

FRANK MOREAU, having been duly sworn, testified as follows:

The NOTARY:

Q. What is your name, age, residence, and occupation?—A. My name is Frank Moreau; age, 32; residence, San Francisco; occupation, seal hunter.

Q. Are you a citizen of the United States?—A. I am.

Q. What State are you a resident of?—A. Kentucky; I was born there; I am now residing in the State of California.

Q. Have you been engaged in catching seals in the Pacific and Bering Sea, and for how long?—A. For five or six years I have been catching seals.

Experience.

Q. Do you know of what sex the seals were that you have taken in the Pacific and Bering Sea?—A. Mostly females.

Have taken mostly females.

Q. What percentage of the skins you have taken were cows?—A. I should judge about 90 per cent.

Q. What percentage of the cows you have taken were with pup?—A. About 75 per cent were with pup.

Seventy-five per cent of which pregnant.

Q. When does sealing commence in the Pacific, and when does it end?—A. It commences about the 1st of January and ends about the last of June.

Commencement and ending of sealing season.

Q. When does sealing commence in the Bering Sea, and when does it end?—A. It commences about the 1st of July and ends about the 1st of November.

Q. What percentage of seals are taken, compared to those you destroy in doing so; in other words, how many do you actually get out of those you shoot?—A. About 75 per cent. We lose about 25 per cent.

Waste of life.

Q. Is it not a fact that when you first started in the business, and was inexperienced in hunting, that you, like all other beginners, destroyed a much larger proportion than you do now?—A. Certainly; there is no doubt about that.

Q. Are the seals you shoot at mostly a-leep on the water or awake?—A. They are mostly asleep.

Q. If awake, do you shoot at them while breeching?—A. Yes, sir; we shoot at them anywhere, either while they are breeching, or heads up or any way.

Q. Have you ever seen any seals born in the water, and is it your opinion that it is possible for them to be born in the water?—A. They are not

born in the water. A seal can not swim when it is first born.

Not born in water.

Q. Do you know of any place where seals land outside of the seal islands?—A. I do not; no, sir.

Q. Have you noticed any decrease in the quantity of animals in the last few years?—A. There is no doubt but what there is a decrease.

Decrease.

Q. To what do you attribute that decrease?—A. From the killing of seals, both by hunters and others.

Q. Do the pups perish with the cows that you kill?—A. Certainly. That is, if the cows happen to be with pup.

Q. Is it your opinion, if sealing continues unrestricted, that they will soon be exterminated?—A. There certainly will not be as many in a few years as there are now.

Q. In your opinion is it absolutely necessary to protect the cows in the Bering Sea to prevent the herd from being exterminated?—A. Certainly it is.

Protection necessary.

Close season.

Q. What months in the year do you think they ought to be protected?—A. Well, from about the middle of June to the 1st of October.

Q. Do you generally shoot seals with a rifle or a shotgun?—A. A shotgun. Ninety per cent are killed with a shotgun.

Q. Do you use buckshot or fine shot?—A. Buckshot. Weapons.

Q. Judging by the direction that seals were traveling in the spring of the year, during your experience, where do you suppose was their destination?—A. The Bering Sea. Migration.

Q. Do you think that the Bering Sea should be entirely closed?—A. Certainly. Close of Bering Sea.

Q. Do you think of anything else that is of value in regard to this seal question that I have not asked you about; if so, you can state anything you please?—A. I have nothing further to say.

F. MOREAU.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

I, Clement Bennett, a notary public in and for said city and county of San Francisco, do hereby certify that the witness in the foregoing deposition named, was by me duly sworn to testify the truth, the whole truth, and nothing but the truth; that said deposition was reduced to writing, and when completed was carefully read over to said witness, and by him subscribed in my presence.

In witness whereof I have hereunto subscribed my name and affixed my seal of office, this 26th day of February, 1892.

[L. S.]

CLEMENT BENNETT,
Notary Public.

Deposition of Niles Nelson, sealer, and part owner of vessel Annie, 1885-'86.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Niles Nelson, being duly sworn, deposes and says: I am by occupation a seal hunter, and part owner of the schooner *Annie*. My residence is in San Francisco. I was engaged in hunting seals during the years 1885 and 1886 in the North Pacific and Bering Sea. We go out about the middle of April. We hunt sometimes with a shotgun, and sometimes with a rifle. Breeching seals we shoot with a rifle, and sleeping seals with a shotgun. I can not give the exact estimate of the sex, but I know that a large proportion of them are females. An experienced A No. 1 seal hunter in shooting sleeping seals with a shotgun will get a large proportion of what he kills, and will get one out of four breeching seals that he kills, but an ordinary, common hunter, like myself, will sometimes use ten cartridges and not get one seal. I can safely say that a common hunter will only get one seal out of three. I can not tell the age or sex of seals in the water. I was sealing in the Bering Sea during July, August, and September, 1885 and 1886. I was cruising in the Bering Sea around about the Pribilof Islands, and from 100 to 300 miles

Experience.

Annie, 1885-'86.

Large proportion, shot females.

Waste of life.

In Bering Sea.

off. The principal portion of the cruising was between the Aleutian Islands and the Pribilof Islands. One of the principal sealing grounds is off Bogoslof. We first discover seals on their way to the breeding grounds in January and February off Cape Race. Most every female that has arrived at the age of maturity is pregnant. We follow them on from there into the Bering Sea, and most all of the females taken are pregnant.

We find pups in the cow seals up to the time they get to the Pribilof Islands in June, but when they come off the Pribilof Islands they have bred, and are in milk for the remainder of the killing season. They sometimes go out from 100 to 200 miles off the islands, while the young ones still remain on the islands. After they have been on the islands they contain no pup, so the hunter can see if the seal has been on the islands or not. I have killed, and seen killed, mothers in milk 100 or more miles from the islands. Seals were not as plentiful in 1886 as they were in 1885. I think the principal cause of that decrease is on account of killing the females in the water, and also getting shy by being chased by the boats. I have never seen a pup in the water, and do not believe they can be born in the water. If they are born in the water they would drown. I know of no places that the seals haul up in the Bering Sea or North Pacific for breeding purposes except St. George, St. Paul, Otter Island, Bering Island, Robben Island, and Copper Island. If something is not done to protect seals in the North Pacific and Bering Sea, they will become exterminated in a very few years.

NILES NELSON.

Subscribed and sworn to before me this 1st day of April, A. D. 1892.
[L. S.]

CLEMENT BENNETT,
Notary Public.

Deposition of John O'Brien, sealer (boat-puller.)

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

John O'Brien, having been duly sworn, deposes and says: I am 40 years of age; I reside in San Francisco; I am by occupation a longshoreman; I made a sealing voyage to the North Pacific and Bering Sea on the schooner *Alexander*, which sailed from Victoria in the latter part of January, 1885. I was a boat-puller. We sailed south as far as Blanco, sealing around there for two or three months, when we headed north into the Bering Sea, having caught 250 or 300 seals before entering the sea, of which 60 per cent of them were females, mostly all of them having pups in them. We entered the Bering Sea the latter end of May, and caught about 700 seals in the Bering Sea, mostly all of them being females in milk. I saw the milk flowing on the deck when they were skinned. We had 6 boats, each boat having 3 men, a boat-puller, steerer, and

Appearance off coast.

Killing of nursing cows.

Decrease.

through their Pelagic birth impossible.

Haul up only on the islands.

Protection necessary.

Sixty per cent of coast catch females, mostly pregnant.

Bering Sea, time of entering.

Catch in the sea mostly nursing cows.

hunter. We used shotguns, using a rifle to shoot at long range. It depends a great deal upon the weather as to the amount of seals obtained by the hunters. After a heavy blow you see the seals lying on top of the water asleep, and you can get very close to them, and on an average you would get 2 or 3 out of every 5 or 6 you kill or wound, while in rough weather you would not get 1 out of 5 or 6 killed or wounded. I could not tell how far off we caught them from the seal islands, as I did not know the distances. At that time there were lots of seals in the water.

Waste of life.

JOHN O'BRIEN.

Subscribed and sworn to before me this 13th day of April, A. D. 1892.

CLEMENT BENNETT,
Notary Public.

Deposition of John Olsen, sealer.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

John Olsen, having been duly sworn, deposes and says: I reside in Seattle, Washington. My occupation is ship carpenter. I helped to build the schooner *Labrador*, in 1890, at Vancouver, and went sealing in her in 1891. Captain Whiteleigh was commander. We left Vancouver for Victoria, on the 29th of March, and fitted out the vessel, leaving Victoria on the 8th day of April. She carried four 16-foot boats and one stern boat 14 feet. She carried two men to the boat, one to pull and one to hunt. We commenced hunting outside of Cape Cook, about 5 miles from shore, and hunted from there up to Unamak Pass, in the Aleutian Islands and entered the Bering Sea about the 5th of June, and was ordered out of the sea the 19th of June. In going up the coast to Unamak Pass we caught about 400 seals, mostly females with young, and put their skins on board the *Danube*, an English steamboat, at Alatack Bay, and after we got into the Bering Sea we caught 220. We had 200 at the time the lieutenant ordered us out of the sea, the remainder we caught after.

Experience.

Labrador, 1891.

Bering Sea.

Time of entering.

Coast catch; mostly pregnant cows.

After entering the sea we got one female with a very large pup, which I took out alive and kept it for three or four days, when it died, as it would not eat anything. All the others had given birth to their young and their breasts were full of milk. I do not believe mothers give birth to their young in the water. We went to Four Mountain Pass, when we went out. We caught these mothers, full of milk, from 50 to 150 miles off the seal islands. I shot twenty-eight myself. We used shotguns, using buckshot, and I have known twenty shots to be fired at a seal before we got her. When we shot at "sleepers" we got a good many more than when we shot at "breechers" or "rollers," and we secured on an average about one out of every

Catch in the sea mostly nursing cows.

Pups not born in water.

Killed nursing cows 50 to 150 miles from islands.

Waste of life.

three killed and wounded. The percentage of loss of those killed and wounded is fully as great as I have stated. I know of no place where they haul up on land except the Pribilof Islands.

Haul up only on islands.

JOHN OLSEN.

Subscribed and sworn to before me this 2d day of April, A. D. 1892.
[L. S.]

CLEMENT BENNETT,
Notary Public.

Deposition of Charles W. Reed, sealer (master).

HABITS—SEALS IN PACIFIC.

STATE OF CALIFORNIA,
City and County of San Francisco, ss :

Charles W. Reed, having been duly sworn, deposes and says : I am 53 years old and am an American citizen, resident of San Francisco, and by occupation a shipmaster and pilot, and a member of the San Francisco Pilot Association. Between the years 1872 and 1880 I made four voyages, as master of a schooner and in charge of expeditions engaged in the sealing industry, to the Galapagos Islands. These islands are situated on the equator, longitude about 90° west. In the first voyage I remained upon the islands about seven months, and at subsequent times from three to five months at each voyage, covering different seasons of the year. I have thus seen and carefully observed the seals resorting to these islands at all times of the year. The beaches occupied by them are overhung by high cliffs and indented with caves and crevices into which the seals go, when not in the water, to avoid the tropical sun. The young are born in these caves and are unable to swim until several weeks old. They do not migrate, but may be found on and about the islands at all times of year. With this exception their habits do not vary, as far as I know, from those of fur-seals in Alaskan waters. They are not particularly timid, and may be as easily managed as sheep or cattle. I have no doubt they could be propagated on the rookeries and their reproduction reassured under proper management. I captured on the first voyage about 3,000 skins and as many more in the three later voyages, slaughtering old and young indiscriminately, but I am now credibly informed that the rookeries are again building up and increasing in numbers. The skins obtained from this herd are quite distinct from those from the Guadalupe, Santa Rosa, and Santa Cruz, and other islands to the northward of the Galapagos group, being much shorter and lighter furred and correspondingly less valuable, as might be expected in animals bred in a tropical climate.

Experience.

Sealing on Galapagos Islands.

Habits.

Domestic nature.

Indiscriminate killing.

CHARLES W. REED.

Subscribed and sworn to before me this 28th day of April, A. D. 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Adolphus Sayers, sealer (master).

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Adolphus Sayers, having been duly sworn, deposes and says: I am a seaman. I reside in San Francisco. I was engaged in sealing in the Bering Sea and North Pacific, in the *City of San Diego* and the *Adeline*, in the years 1887 and 1888. I was master of the *Adeline*. We commenced to seal from the Cordell Banks off the coast of California right up to the Bering Sea. On the voyage of the *City of San Diego*, which lasted about eight months, we got about 1,900 seals. The hunters had rifles and shotguns, but as we entered the Bering Sea the revenue cutter *Corwin* took away our rifles and left us the shotguns. The shotgun is not as fatal as the rifle, but it ruins the skins of the seals. I was a boat-puller when I was on the *City of San Diego*. I can not tell from the appearance of a seal in the water whether it is a male or female, but most all of the seals we killed in the water were females. Sometimes we opened them and found young pups inside, and sometimes they were mothers that had given birth to their young and their breasts were full of milk, and we often killed them 100 miles or more from the seal islands. A seal never bears but one pup at a time. An ordinary hunter, on an average, will not kill one out of four breaching seals, and sometimes he will not get one. The sleeping seal is the most easily killed, and we got about one out of three killed and wounded. I know that the seals are rapidly decreasing, and I believe it is caused by killing females in the water.

Experience.

City of San Diego, Adeline, 1887, 1888.

Scaling off coast.

Entered Bering Sea.

Females taken 100 miles from islands.

Waste of life.

Decrease.

ADOLPHUS SAYERS.

Subscribed and sworn to before me this 4th day of April, A. D. 1892.

[SEAL.]

CLEMENT BENNETT,

Notary Public.

Deposition of C. M. Scammon, officer Revenue Marine.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

C. M. Scammon, having been duly sworn, deposes and says: I am 67 years old and a resident of Oakland, Cal. I am and have been an officer in the United States Revenue Marine Corps since 1863. In 1865 and 1866 I was in command of the Western Union Telegraph Company's fleet of vessels when it was expected to establish a telegraph line to Europe via Bering Straits. In this capacity and later as commander of vessels under the United States revenue-cutter flag, I repeatedly passed through Bering Sea, touching at the seal islands. I am the author of the work entitled "The Marine Mammals of the Northwestern Coast of North America," published by J. H. Carmany & Co., San Francisco, 1874. In preparing Chapter IV of part 2 of that work, relative to fur-seals, I consulted

Experience.

every accessible authority upon that subject and added the result of my own observation and experience. Since then eighteen years have elapsed and many new facts have been brought to light concerning them, confirming for the most part what was then written, yet modifying to some extent the conclusions arrived at.

The nomenclature and technical terms of seal-hunters have changed somewhat. We hear of "cows" instead of "clap-matches," "bulls" instead of "wigs," and "bachelors" or "holuschuckie" instead of "yearlings." At the time my book was written the regular migratory habits of the animals were not as well understood in respect to the routes of migration as they are now, and naturalists always commence their description with the arrival of the different classes of seals at the northern breeding grounds, beginning with the "bulls" in the early spring, following them with the "cows" and "bachelors" at a later date, and then taking up the birth and development of the young. This, I think, resulted from our ignorance of where they spent the winter months. Now it is well known that the Pribilof seals work their way

down to the coasts of California, Oregon, and British Columbia, and go north again in the spring; and that the Commander Islands herd migrates down the Asiatic coast, the two herds keeping apart from each other. I held this opinion many years ago, as is shown by my letter to the honorable Secretary of the Treasury, written August 30, 1869, as follows, and later observations and reading have confirmed my conclusions:

"SAN FRANCISCO, CAL.,
"August 30, 1869.

"SIR: While on the station at Puget Sound frequent opportunities offered to observe the habits of the fur seals.

"I have long been of the opinion that those seen off the mouth of Juan de Fuca Strait were a portion at least of the great herds that make their annual visits to the islands of St. George and St. Paul, Bering Sea.

"Since my return to this city I have gathered further information which convinces me that beyond question the seals passing the mouth of the strait during the months of March, April, and a part of May resort to the above-named islands to bring forth their young, as nearly all the females (and no others are caught) taken by the Indians at this point have fetuses in them that to all appearances would be brought forward on their arrival at their northern summer haunt.

"From personal observation, as well as from the most reliable information, it is quite certain that there has been taken by the Indians of Vancouver Islands and Washington Territory during the last spring about 5,000 fur-seals, and almost invariably each animal was with young, so that in taking the number of adults above mentioned there were actually destroyed near 10,000 seals.

"Having every reason to believe that vessels will be fitted out to take seals off the strait the coming season, I have thought it well to make this report to the Department.

"I have the honor to be, sir, your obedient servant,

"C. M. SCAMMON,
"Capt., U. S. R. S.

"Hon. GEO. S. BOUTWELL,

"Secretary of the Treasury, Washington, D. C.

The certainty that the seals caught in the North Pacific are in fact a portion of the Pribilof herd, and that all are born and reared for the first few months upon the islands of that group, naturally leads the observer to regard them as quite domesticated and belonging upon their island home. The more orderly way to describe them, therefore, would be to commence with their birth upon the island and the beginning of their migrations rather than at the end of some one of their annual rounds away from home.

I gather, too, from further research that the nature of their food and the source whence it is obtained are better understood than formerly. It is well known that the bulls eat nothing during the rutting season and while taking care of their harems on the islands. The cows, however, go and come at will after the pups are dropped, and may be found in large numbers with the mammary glands distended with milk many miles from the breeding grounds. The pups are not able to go with their mothers and drown if by mischance they are thrown into the sea before they are three or four weeks old. They stay with the bulls on the breeding grounds until about six or seven weeks old before learning to swim. The fur-seals of the north, unlike the hair seals, do not seem to like the severe cold weather and ice of the north, for they migrate to the southward upon its approach, while those inhabiting the tropics, as at the Gallapagos Islands, leave the islands perhaps, but do not go, so far as is known, to any great distance. I have no doubt the northern seals of the Pribilof Islands spread over a very wide extent of the North Pacific in winter. They are occasionally seen far off from land, but are much more numerous within soundings. Their food is mainly fish, and they are naturally found where that is most abundant. Seal-hunters say and statistics show that where fish are most plentiful, as in latitude 55° to 56° north, in Bering Sea, on the Shumagin Banks off the Alaskan Peninsula, and off the entrance to the Straits of Fuca, there the best catches of seals are made.

Up to nearly the time my work was published, little was known about marine seal fishing. It was mostly confined to the Indians. A few vessels were engaged in the trade from Victoria, but cut no figure in commerce. The price of skins was comparatively low, and no great inducements were offered to go into the business. It was when prices advanced, and white hunters acquired the skill of following the movements of the seals and in shooting from a boat, that the real danger of the extermination of the species became apparent. The records of the Pribilof Islands show that not many seals were left on the rookeries about 1840 to 1845, and very few then appeared in the vicinity of the British Columbia coast. As those rookeries increased so the "Victoria catch" increased, and amounted to about 5,000 skins in 1869. (Marine Mammals, p. 154.)

The annihilation of many rookeries formerly existing in different parts of the world has heretofore been accomplished by wasteful, and sometimes wanton, destruction on the land. Now, the only known rookeries of any size are guarded, and the vandals can not reach them; but they seem to have found methods of destruction almost as effectual as a seal club, and they kill as cruelly and wastefully as they formerly did on land. Other animals of less use to mankind than the seals are protected by a close

Seals in Northern Pacific.

Habits.

Females in water.

Pups learning to swim.

Pribilof seals in Northern Pacific.

Annihilation of other rookeries.

Protection necessary.

Pregnant females.

season, or some other restriction, to save them from slaughter when breeding, but nearly all the seals killed in the water are mothers with young.

Bering Sea seems to be peculiarly adapted to the wants of the fur-seals. Its climate is moist, the sun rarely shines in summer, and the water abounds in fish. Here also pelagic seal hunters find their best opportunity. They can stay about where they please under cover of the fog and defy any guard-ship to detect them. The range of the seals is very broad, and it is impossible to watch every square mile. The only way to stop the destruction of the rookeries is to stop pelagic sealing. If it is cruel and wasteful to destroy a whole species of useful breeding animals, it is just as cruel and wasteful, in proportion, to kill a few of them. Why should any be killed?

I do not believe any partial measure of protection will stop the depletion of the rookeries. If vessels may be fitted out with the paraphernalia for seal hunting, and skins brought into port and sold with impunity, the hunters will manage by hook or crook to evade any restriction.

Complete measures
necessary.

C. M. SCAMMON.

Subscribed and sworn to before me this 10th day of May, A. D. 1892.

[L. S.]

CLEMENT BENNETT,
Notary Public.

Deposition of Peter Simes, sealer (steward).

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Peter Simes, having been duly sworn, deposes and says: I reside in San Francisco. My occupation is that of steward. I made one sealing voyage in 1890 on the British schooner *Umbrina*, of which Capt. Campbell was master. We sailed from Victoria, British Columbia, April 8, and went right up the coast until we got to Sand Point, sealing all the way up. We caught 280 seals going up. When we got there we met one of the cutters, and it gave us orders not to go in the Bering Sea. We laid there a week and returned, sealing all the way down. We had 315 skins when we arrived here.

Experience.
Umbrina, 1890.
Sealing off coast.

Mostly all of them were females heavy with pup asleep on the water, and we killed them with shotguns. We got back in the second week of July. The captain, mate, and myself went out several times with the stern boat, and we killed 15 the first time we went out. I think we went out that way three or four times, and we usually got about one out of four killed. I recollect one day when we were hunting bad weather set up, and we did not get any seals. In good weather we got more seals than we did in bad weather.

Warned off.
Mostly pregnant
females taken.

Waste of life.

PETER SIMES.

Subscribed and sworn to before me this 6th day of April, A. D. 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of James Sloan, sealer.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

James Sloan, having been duly sworn, deposes and says: I reside in San Francisco. I am by occupation a seaman. I made three voyages to Bering Sea. My first voyage was on the *Flying Mist*, of which Capt. Saddler was master; the next was on the *Penelope*, of which Capt. Littlejohn was master, and my next was in the schooner *Arctic*, of which Capt. Brassey was master. We sailed from here on the *Flying Mist* on the 17th day of April, 1871, and caught altogether on that voyage about 875 seals, of which a large majority were either females with pups or with their breasts full of milk. I saw it flowing on the deck when we were skinning them. We had six boats, four men to a boat; two boat pullers, steerer, and hunter. We used rifles for shooting. On my next trip, in 1884, I sailed from Yokohama, Japan, on the *Penelope*, leaving there about March, under the British flag, going to the Okhotsk Sea, sealing there about a month; but we only caught two seals, and then went to Bering Sea, entering it about the 22d of May. We caught 767 seals in Bering Sea that year, from 30 to 150 miles off the seal islands. The most of them were females, for the reason that they are not as cute and wild as the males.

Experience.
Flying Mist, 1871.

Mostly pregnant females taken.

Penelope, 1884.

Entered Bering Sea.

Mostly females taken.

A great many of the female seals had their breasts full of milk, which would run out on the deck when we skinned them. My orders were to kill them indiscriminately, everything I ran across. It is impossible to tell a female from a male in the water, unless it is an old bull. We had six boats on board, each boat having a boat puller, a hunter, and a steerer. We used shotguns mostly, except for long range we used rifles. My third voyage was in 1889. I sailed from Yokohama on the *Arctic* about the latter part of January. We cleared under the American flag, and went to the Okhotsk Sea and sealed there about two months. We got there some 500 seals, of which more than one-half were females, and the most of them had pups in them. We entered Bering Sea about the 17th of May, and caught about 900 seals, the most of them around the fishing banks, just north of the Aleutian Islands. The majority of them were mother seals. We had nine boats, four on one side and five on the other. Each boat had three men. We used shotguns on that trip also, once in a while using a rifle for long range. I think the average hunter gets about one or two out of every five or six that he kills or wounds. I made a whaling voyage to Bering Sea last year, where I remained for five months. I was fourth mate of the bark *Lydia*.

Indiscriminate killing.
Sex indistinguishable in water.
Shotguns used.
Arctic, 1889.

Females taken.
Entered Bering Sea.
Majority pregnant females.

Waste of life.
Lydia, 1891.

I took very great interest in the seals, because I used to hunt them myself, and I noticed a great decrease in the number of seals from what there was formerly, when I was on sealing voyages. It was, in fact, so marked that I called the captain's attention to it, saying that we had seen very few seals. They have been getting scarcer every year since I have been going to Bering Sea, and if something is not done right away to protect them their will

Decrease.

be no more seals in these waters. I know as a fact that they are killing them indiscriminately, and all the hunters care about it is to get a skin. I know something about it, as I have been sailing from this coast up along those waters for nineteen years, and, as I said before, I paid particular attention to them, and I firmly believe if they allow the killing in the sea to go on as they are now doing it will only be a question of a few years before there will not be enough to pay anyone to hunt them. I do not know of any other place on our coast where the seals haul up except at the seal islands. I do not believe a seal can be born in the water and live.

JAMES SLOAN.

Subscribed and sworn to before me this 15th day of April, A. D. 1892.

[SEAL].

CLEMENT BENNETT,
Notary Public.

Deposition of William H. Smith, sealer (master).

PELAGIC SEALING.

William H. Smith, being duly sworn, deposes and says: I am by occupation a seaman and seal hunter. Have been engaged in catching seals in the North Pacific Ocean for fourteen years and one season in Bering Sea. Have been mate and captain while sealing. First seal seen and taken by me were off the Columbia River in January and February. The seal at that time were traveling north. Spear is mostly used by the Makah Indians. Farther north the shotgun is used. Very few are lost when struck with a spear. About 66 per cent are lost when shotgun is used. Most of the seals taken are females with young. Very few males are taken on the coast. I have taken 600 seals in one season and only 3 male seals were among them. A few yearlings are taken, mostly females. Sex of seal can not be distinguished in the water. We use no discrimination in hunting; shoot every seal that comes near the boat. Seal are most always shot in the head if it is possible; if not, they are shot in the body where exposed. The indiscriminate killing of female seals in Bering Sea will very soon destroy the herd. Have never known of pup seals being born in the water, nor anywhere else on the coast outside of the Pribilof Islands. Have never heard of fur-seals hauling up on the coast elsewhere than on the Pribilof Islands. Have taken female seals in Bering Sea about 145 miles from the Pribilof Islands. I think that pelagic seal hunting in Bering Sea should be stopped.

WM. H. SMITH.

Subscribed and sworn to before me this 6th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Deposition of E. W. Soron, seater (master).

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

E. W. Soron, having been duly sworn, deposes and says: I am by occupation a seaman. I reside in San Francisco. I was in the North Pacific in 1888, on board the *City of San Diego*, as mate. We left San Francisco in February and fished all the way up to Kodiak Island. We caught about 475 seals and about 40 otters. To the best of my judgment the greatest portion of these were cows heavy with young. We could see the milk running out of their teats when they were skinned. I saw pups inside of the seals that we cut, and we saved some of them and fed them. We hunted with shotguns and rifles, and killed most of the seals when they were asleep on the water, and we only got about one out of five killed. I can not tell the sex of the seal in the water unless he is an old bull. A hunter will blaze away at anything he sees in the water. The seals are gradually being killed off by the hunters, and something should be done to protect them and stop the killing of female seals or they will soon be all gone.

Experience.
City of San Diego,
1888.

Catch of seals.
Mostly pregnant fe-
males taken.

Waste of life.
Can not tell sex in
water.

Protection neces-
sary.

E. W. SORON.

Subscribed and sworn to before me this 6th day of April, A. D. 1892.
[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Cyrus Stephens, scaler (boat-puller).

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss.

Cyrus Stephens, having been duly sworn, deposes and says: I am working at calking vessels at the present time. I was employed on sealing vessels in the North Pacific in 1888 as cabin boy and boat-puller. I made two voyages to the North Pacific; first in the *City of San Diego* and the next in the *C. G. White*, in 1890. We left here with the *City of San Diego* in February of 1888 and arrived in the Bering Sea in June, 1888. As soon as we got into the ocean we commenced shooting seals and continued shooting all the way up to the Aleutian Islands. The seals became more plentiful as we were going north. We caught about 650 seals during that voyage. We killed a portion of them in the Bering Sea. We killed one large bull that I recollect, and the rest were nearly all females with pup or mothers giving milk. An ordinary hunter will not get more than one seal out of four that he shoots at, and not more than one out of two that he kills, and sometimes not that. I have never seen any young pups in the water. I do not think they

Experience.
City of San Diego,
1888; *C. G. White*, 1890.

Entered Bering Sea.
Shooting seals.

Mostly pregnant fe-
males taken.
Waste of life.
Do not breed in
water.

breed in the water. I never saw any seals on the land as we went along the coast. I think on the first voyage when I was in the *San Diego* we were in the Bering Sea about a month and a half, but when I was on board the *C. G. White* we did not go in the Bering Sea at all. I do not know what distance we were from the islands of St. Paul and St. George. I do not know much about the particular habits of the seals except that they go north in summer and south in winter. I think the seals are decreasing in number all the time, because there are more vessels out hunting after them and are killing off the female seals.

Migration.
Decrease.

CYRUS STEPHENS.

Subscribed and sworn to before me this 4th day of April, A. D. 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Depositions of G. Sundvall, George Ball, and William Henson, sealers.

PELAGIC SEALING.

Be it remembered that on the 24th day of February, 1892, at my office, 434 California street, in the city and county of San Francisco, State of California, before me, Clement Bennett, a notary public in and for said city and county of San Francisco, State of California, duly appointed and commissioned to administer oaths, personally appeared G. Sundvall, George Ball, and William Henson, who, being first by me duly sworn, testified as follows:

CAPT. G. SUNDVALL having been duly sworn, testified as follows:

The NOTARY:

Q. What is your name, age, residence, and occupation?—A. My name is Gustave Sundvall; I am 37 years of age; occupation, sea captain, and am residing at present at Oakland, Cal.

Experience.

Q. Are you a citizen of the United States?—A. I am.

Q. What State are you a resident of?—A. I am a resident of the State of California.

Q. Have you been engaged in catching seals in the Pacific and Bering Sea, and for how long?—A. I have been engaged in catching seals in the Pacific and Bering Sea for a number of years.

Pelagic sealing.

Q. Do you know of what sex the seals were that you have taken in the Bering Sea?—A. Females.

Ninety per cent females.

Q. What percentage of the skins you have taken were cows?—A. About 90 per cent or more.

Two-thirds pregnant.

Q. What percentage of the cows you have taken were with pup?—A. Well, I should judge about two-thirds, anyhow.

Sealing season.

Q. When does sealing commence in the Pacific, and when does it end?—A. It begins the 1st of January, up to about the 1st of July.

Q. When does sealing commence in the Bering Sea, and what date does it end?—A. From the 15th of July until the 1st of November.

Q. What percentage of seals are taken compared to those you destroy in doing so; in other words, how many do you actually get out of those you shoot?—A. I guess we get hardly two-thirds of what we shoot.

Waste of life.

Q. Is it not a fact that when you first started in the business, and was inexperienced in hunting, that you, like all other beginners, destroyed a much larger proportion than you do now?—A. It is.

Q. Are the seals you shoot at mostly asleep on the water or awake, and if awake, do you shoot at them while breeching?—A. Yes, sir; if they are breaching I generally shoot at them, but if they are sleeping I generally take them at first while asleep, of course.

Q. Have you ever seen seals born in the water, and is it your opinion that it is possible for them to be born in the water?—
Not born in water.

A. It is impossible for seals to be born in the water.
Q. Do you know of any place where seals land outside of the seal islands?—A. I do not know of any
Land only on islands.
place; no, sir.

Q. Has there been any decrease in the quantity of seals as compared to previous years?—A. There has been a decrease; from the time I started sealing I guess there has been a decrease of 25 per cent.
Decrease.

Q. If there is a decrease, to what do you attribute it?—A. On account of so much extermination and hunting by the seal-hunters.

Q. Do the pups perish with the cows that you kill?—
Pups lost.
A. The pups always perish with the cows that are killed; yes, sir.

Q. Is it your opinion if sealing continues unrestricted that they will be soon exterminated?—A. It is my opinion that if sealing continues as usual they will be soon exterminated, and not before a great while, either.
Extermination imminent.

Q. In your opinion is it absolutely necessary to protect the cows in the Bering Sea to prevent the herd from being exterminated? If so, for what months in the year?—A. It is absolutely necessary to protect the cows, in order to prevent seals being exterminated, from the 1st of July up to the 1st of November.
Protection necessary.
Close season.

Q. Do you generally shoot seals with a rifle or a shotgun, and if the latter, with buckshot or fine shot?—A. I generally shoot them with a shotgun loaded with buckshot if asleep; if awake we generally shoot them with a rifle.

Q. Judging by the direction that seals were traveling during your experience, where do you suppose was their destination?—A. I can not tell their destination, but I should judge they went south in the fall from 15 to 500 miles offshore, and in the spring they travel to the northward from 5 to 100 miles offshore.
Migration.

Q. In order to preserve the seals, do you think it absolutely necessary to stop all killing in the water of the Bering Sea?—A. Yes, sir; I think it absolutely necessary, in order to protect the seals, to stop all killing of cows in the Bering Sea?
Absolute prohibition necessary.

Q. Do you think of anything else that is of value in regard to this seal question, that I have not asked you; anything you would like to say; you can give your opinion about it.—A. I have no more to say than what I have already said.

Capt. GUSTAVE SUNDVALL.

Capt. GEORGE BALL, having been duly sworn, testified as follows:

The NOTARY:

Q. What is your name, age, residence, and occupation?—A. My name is George Ball; age, 42; residence
George Ball, sea captain.

at present, San Francisco, Cal.; occupation, master and hunter of seals.

Q. Are you a citizen of the United States?—A. I am.

Q. What State are you a resident of?—A. I am a native of Connecticut and a resident of the State of California for the last twenty-seven years.

Q. Have you been engaged in catching seals in the Pacific and Bering Sea, and for how long?—A. I have been engaged in sealing in the Pacific and Bering Sea off and on for a number of years past; constantly during the sealing season for the last few years.

Q. Do you know of what sex the seals were that you have taken in the Pacific and Bering Sea?—A. Yes; I have taken both male and female seals, but I suppose the greater per cent that I have taken would be about 90 per cent females, or even more,

Q. What percentage of the skins you have taken were cows?—A. About 90 per cent, for the simple reason that the bulls are not migrative.

Q. What percentage of the cows you have taken were with pup?—A. About 99 per cent of the cows taken were with pup; there may be one in a hundred that is either without pup or has had one.

Q. When does sealing commence in the Pacific, and when does it end?—A. Sealing practically commences there in January, and it practically ends between the 25th of June and the 5th of July. The latest I ever hunted was about the 5th of July, and with very indifferent success.

Q. When does sealing commence in the Bering Sea, and what date does it end?—A. Sealing commences in the Bering Sea about the 5th of July and ends in November, with heavy weather; that is, it is ended about October or the last of November by reason of the bad weather not permitting any hunting of seals.

Q. What percentage of seals are taken compared to those you destroy in doing so; in other words, how many do you actually get out of those you shoot?—A. If we get three seals out of every five we consider it doing very good work, and so I believe do all hunters, even the best of the hunters.

Q. Is it not a fact that when you first started in the business and was inexperienced in hunting that you, like all other beginners, destroyed a much larger proportion than you do now?—A. Undoubtedly we did destroy a much larger proportion than we do now.

Q. Are the seals you shoot at mostly asleep on the water or awake; and, if awake, do you shoot at them while breeching?—A. Mostly they are asleep, especially while they have their pups; but there is a good deal of shooting done while they are awake and breeching, but with less chance of getting them, to be sure.

Q. Have you ever seen any seals born in the water, and is it your opinion that it is possible for them to be born in the water?—A. No, sir; they are not like sea-otter, they being born in the water. A seal is just as helpless in the water, until they are about six weeks or two months old, as a child.

Q. Do you know of any place where seals land outside of the seal islands?—A. The seals are found only on certain islands, where they migrate from year to year for the purpose of breeding, throwing their pups.

Q. Has there been any decrease in the quantity of seals as compared to previous years?—A. There has been a decided decrease. Vessels that used to get with experienced hunters 3,000 or 4,000 in a season, now get with experienced hunters less than half of that number. Decrease.

Q. To what do you attribute that decrease?—A. I attribute the decrease to the indiscriminate slaughter of the seals. Indiscriminate killing.

Q. Do the pups perish with the cows that you kill?—A. Certainly, they do. Pups lost.

Q. Is it your opinion, if sealing continues unrestricted, that they will soon be exterminated?—A. They will, in my opinion, not be entirely exterminated should sealing continue there as usual, but it will make the business of seal catching so unprofitable that no one will desire to engage in it, I think.

Q. In your opinion, is it absolutely necessary to protect the cows in the Bering Sea, to prevent the herd from being exterminated? If so, for what months in the year?—A. It is my opinion that it is absolutely necessary to protect the cows in the Bering Sea during the entire year for a period of years. Protection necessary.

Q. Do you generally shoot seals with a rifle or shotgun, and if the latter, with buckshot or fine shot?—A. We use both, but principally with a shotgun loaded with No. 2 shot, heavy buckshot.

Q. Judging by the direction that seals were traveling during your experience, where do you suppose was their destination?—A. In the fall of the year they leave their rookeries and travel to a warmer climate, traveling from 5 miles to 100 miles offshore. Migration.

Q. Do you think of anything else that is of value in regard to this seal question that I have not asked you, and if anything you would like to say, you can give your opinion about it?—A. Well, I think it is proper for the interests of sealing in those waters that the Government should take immediate action in the protection of seals in the Bering Sea. Immediate protection necessary.

GEO. BALL.

WILLIAM HENSON, having been duly sworn, testified as follows:

William Henson
sealer.

The NOTARY:

Q. What is your name, age, residence, and occupation?—A. My name is William Henson; I am 30 years old; I reside in this city; I have been occupied in seal hunting for about eight years.

Q. Are you a citizen of the United States?—A. Yes, sir.

Q. What State are you a resident of?—A. The State of California.

Q. Do you know of what sex the seals were that you have taken in the Pacific and Bering Sea?—A. Two-thirds of them are females. Mostly pregnant females taken.

Q. What percentage of the skins you have taken were cows?—A. Two-thirds, I should say.

Q. What percentage of the cows you have taken were with pup?—A. At least 60 per cent were with pup.

Q. When does sealing commence in the Pacific and when does it end?—A. Sealing commences in the Pa- Sealing season.

cific about the 1st of January and ends about the last of June.

Q. When does sealing commence in the Bering Sea and when does it end?—A. It commences in the Bering Sea about the 1st of July and ends about the 1st of November.

Q. What percentage of seals are taken compared with those you destroy in doing so; in other words, how many do you actually get out of those you shoot?—A. We get about two-thirds of those we shoot.

Q. Is it not a fact that when you first started in the business and was inexperienced in hunting, that you, like all other beginners, destroyed a much larger proportion than you now do?—A. Yes, sir.

Q. Are the seals you shoot at mostly asleep on the water or awake; and if awake, do you shoot at them while breeching?—A. We take the sleepers first, and we also shoot at them while breeching.

Q. Have you ever seen any seals born in the water, and is it your opinion that it is possible for them to be born in the water?—A. I think it impossible for seals to be born in the water.

Q. Do you know of any place where seals land, outside of the seal islands?—A. I do not; no sir.

Q. Has there been any decrease in the quantity of seals as compared to previous years?—A. I think there has been a decrease of seals as compared to previous years of about 25 per cent or more.

Q. If there is a decrease, to what do you attribute it?—A. I attribute it to the extermination by inexperienced hunters.

Q. Do the pups perish with the cows that you kill?—A. Yes, sir; they do.

Q. Is it your opinion if sealing continues unrestricted that they will be soon exterminated.—A. I am of that opinion; yes, sir.

Q. In your opinion, is it absolutely necessary to protect the cows in the Bering Sea to prevent the herd from being exterminated; if so, for what months in the year?—A. I think it necessary to protect the cows in the Bering Sea from the first of July to the last of November, in order to protect them from being exterminated.

Q. Do you generally shoot seals with a rifle or shotgun, and if the latter, with buckshot or fine shot?—A. We generally shoot the seals with buckshot if we are close enough; if not, we shoot them with a rifle.

Q. Judging by the direction that seals were traveling in the spring of the year during your experience, where do you suppose was their destination?—A. They go north during the spring of the year.

WILLIAM HENSON.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

I, Clement Bennett, a notary public in and for said city and county, do hereby certify that the witnesses in the foregoing depositions named were by me duly sworn to testify the truth, the whole truth, and nothing but the truth; that said depositions were reduced to writing, and when completed were carefully read to said witnesses and subscribed in my presence.

In witness whereof I have hereunto subscribed my name and affixed my seal of office, this 25th day of February, 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Z. L. Tanner, Commander, U. S. Navy.

HABITS.

Z. L. Tanner, being duly sworn, deposes and saith: I am a Lieutenant-Commander in the United States Navy, commanding the Fish Commission Steamer *Albatross*. I have made five cruises in Alaskan waters, embracing the entire region from Fort Tongass to the Kuskokwim River, including the eastern portion of Bering Sea. I have never seen and have no knowledge of any fur-seal rookeries in the region other than those on the Pribilof Islands, and have never seen fur-seals in any great abundance save on and near said islands.

Experience.

No knowledge of rookeries elsewhere than on Pribilof Islands.

Z. L. TANNER,
Lieutenant-Commander, U. S. Navy.

Subscribed and sworn to before me this 29th day of April, 1892.

JOSEPH MURRAY,
United States Treasury Agent.

Deposition of W. Thomas, master mariner.

PELAGIC SEALING.

W. Thomas, being duly sworn, deposes and says: I am a seaman by occupation and at present captain of the steamer *Elsie*. Previous to taking command of the *Elsie* I was in command of the steamer *Karluk* doing business in Alaska most of that time. The hunters follow the seal from south of San Francisco, where they begin to take them in February until they enter Bering Sea. The seal are constantly on the advance up the coast from the time they first appear. The white hunters use shotguns altogether for taking seal. I have always understood that 33 per cent of seals shot with shotguns are lost. Hunters use no discrimination in killing seal, but kill everything that comes near the boat, regardless of sex. I have heard that seal have been decreasing the last few years, caused, I think, by pelagic sealing. Have never known any pups being born in the water or on the land on the coast of Alaska outside of the Pribilof Islands. I have never known myself of fur-seal hauling up on the coast of Alaska outside of the Pribilof Islands, but have heard there were a few one season hauled on Oumnak Island. I think that all pelagic hunting should be stopped for a few years to give the seal a chance to increase.

Experience.

Migration.

Indiscriminate killing.

Decrease.

No pelagic birth.

Seal do not haul up on coast.

Protection.

W. THOMAS.

Subscribed and sworn to before me this 30th day of April, 1892.

A. W. LAVENDER,
United States Treasury Agent.

Affidavit of Adolph W. Thompson, sealer (mate).

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss :

Adolph W. Thompson, having been duly sworn, deposes and says: I reside in San Francisco. My occupation is that of a master mariner. I went sealing in 1890, when I was mate of the *Allie Alger*. We sailed from Seattle in the latter part of January, and sealed off the coast until July, and then entered the Bering Sea. The catch that season along the coast was 90 per cent females, and the greater proportion of them were females in pup. We entered the Bering Sea about the middle of July, and we got about 1,600 seals there. That was the best catch of the whole fleet for that season, the total catch, I think, being about 2,600. Those we killed in the Bering Sea were mostly females in milk. We never went nearer to the islands than between 25 and 30 miles. We killed most of them while they were going to or returning from the fishing banks. We used mostly shotguns in killing seals. We carried rifles, but did not use them much. The most of the seals that we killed were asleep on the water. The female seal has more curiosity than the male seal. We catch more seals after two or three days of rough weather, because they are tired, and when it is calm the next day they are tired and lie asleep on the water. We had seven boats on the *Allie Alger*, each boat having three men, a boat-puller, a steerer, and hunter.

In 1891 I went out in the schooner *C. H. White*. We left here about the 5th of February, and sealed along the coast and did not enter the Bering Sea that season. We caught about 438 seals, and a large proportion of them were females with young ones in them. They were not nearly as plentiful that season as they were in 1890. The best hunter will fire about twenty cartridges, and they get ten or twelve seals, while a hunter of less experience will fire one hundred rounds and get nothing, but will wound and disable them. If a seal is shot dead he will sink at once. You have got to get to them at once, or else you will lose them. The object is to wound them so that they will flop around on the water. On my first voyage I think we got two out of every five that we killed. That does not take into consideration the unborn pup, or the pup of the mother that dies on the rookery. I have taken unborn pups from their mothers and fed them on condensed milk, and kept them for quite a time. I refer to cases where the mother is about ready to deliver her pup. I am satisfied from my experience that they must protect the seals in Bering Sea. If not they will soon be killed off. It may also be necessary to protect them in the North Pacific, for the catch in those waters are nearly all females carrying their young.

A. W. THOMPSON.

Subscribed and sworn to before me this 12th day of April, A. D. 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Francis Tuttle, lieutenant, United States Revenue Marine.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Francis Tuttle, having been duly sworn, deposes and says: I am a first lieutenant in the United States Revenue-Cutter Service, and have been an officer in that service for the last thirteen years. Am at present in command of the revenue cutter *Hartley* at San Francisco. I made cruises to the Bering Sea in the United States Revenue steamer *Rush* during the years 1888-'89 and 1890. During the sealing season of 1888 the *Rush* cruised in Bering Sea and made frequent stoppages at the seal islands.

Experience.

Cruising in Bering Sea.

I had an excellent opportunity to observe some of the seal rookeries during my first visit to the islands, and spent much time in studying the habits of the seals, both on the rookeries and in the adjacent waters. I was particularly impressed with the great numbers to be seen both on land and in the water. During the summer of 1889 the *Rush* was so actively engaged cruising in pursuit of vessels engaged in illegal sealing that our anchorages off the seal rookeries that season were short and infrequent; hence I did not have the opportunity to observe them as closely on land as the preceding year.

During 1890 the *Rush* was not engaged in preventing sealing outside the shore limit, and we spent much time in full view of the seal rookeries and cruising about the seal islands, and I also made frequent visits to the breeding grounds.

The deserted appearance of the rookeries and the absence of seals in the water was very noticeable and was a matter of general remark among the officers of the vessel, who had been on the former cruises. Very large tracts of the rookeries which I had formerly seen occupied by the seals were entirely deserted, and the herds were much smaller than those of 1888. My attention was also called, by those conversant with the facts, to the grass growing on the inshore side of some of the rookeries, and to the three different shades of grass to be seen, indicating the spaces that had not been occupied by the seals for several years, owing to their diminished number, the darker shade showed where the growth first commenced, and a lighter shade for each succeeding year. There were three or four differently shaded growths, reaching down to the sand of the rookeries, and on that portion of the rookeries occupied by seals they were not lying near as compact as in 1888.

Decrease.

Rookeries becoming deserted.

In our frequent passages during 1890, between the Aleutian group and the seal islands, we sometimes made an entire passage without seeing a seal. This was entirely different from the experience of the preceding years, indicating a great falling off of seal life.

I have observed and learned that crews of vessels engaged in sealing kill all kinds without regard to age, sex, or condition. I have seen among the skins taken from vessels we have seized, bull skins which I was told by experts were comparatively worthless, others so small as to be classed as pup skins. Among the Indian crews of the Vancouver Island sealing-vessels, I have seen the skins of unborn pup seal; being of no commercial value, the crews were allowed to keep them. These unborn pups had been taken from female seals killed while coming up the west coast of North America.

Indiscriminate killing.

In my conversation with men engaged in seal-hunting in the open water of the North Pacific and Bering Sea, I have not been able to get sufficient information to form a reliable estimate of the average number saved out of the total number shot, nor of the percentage of females killed.

As a rule, hunters are extremely reticent about giving information on the subject to officers of the Government, but from the well-known fact that the female seal is much more easily approached than the male

and sleeps more frequently on the water and is less active when carrying her young, I have no doubt that the female is the one that is being killed by the hunter.

FRANCIS TUTTLE.

Subscribed and sworn to before me this 15th day of April, A. D. 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of M. L. Washburn, furrier.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss :

M. L. Washburn, having been duly sworn, deposes and says: I reside at West Randolph, Vt., but spend most of my time

Experience. on the south shores of Alaska. My occupation is that of a fur-dealer. I have been in Alaska for thirteen

years; and for the last five years have been traveling in the early summer months of each year, buying furs from Kodiak Island east to Prince Williams Sound west; occasionally I made trips as far east as Yakutat Bay and as far west as Chignik Bay. The seals appear

Migration. in these waters late in April and increase in numbers until the latter part of May, and then gradually decrease in numbers until about the 15th of July, when they all disappear. I annually visit nearly all the settlements in this region, and many of the uninhabited islands, and have never seen, and in conversation with the various

tribes of natives have never heard of fur-seals hauling on shore of the mainlands or the islands in this district, either for breeding or temporary resting place, since my residence in Alaska, and in only one case have I heard of a young pup fur seal being found in the waters of this district. A single pup seal was found last year near Marnot Island by a hunter who had been for years engaged in hunting, and this was the only case that had ever come to his knowledge. And I would say in this connection that all the small islands are visited during the summer by native hunting parties; and they informed me that they never had found any fur-seals on shore. Five years ago it was a common occurrence to sail past large numbers of fur-seals; many times we found them asleep on the water,

and they were not easily frightened at the presence of a vessel, but for the last two years the seals have been more scattering, fewer in numbers and much more shy.

The sealing schooners appear soon after the first appearance of the seal, and a portion of them remain in these waters until early in July, when they sail to the westward

toward Bering Sea.

Pelagic sealing.

Decrease.

Do not haul up on coast.

From conversation with the hunters I learn that they follow the seals to within a few miles of shore, and hunt them at times in the mouth of the large bays. Some of the principal sealing grounds in this region are but a few miles off the islands, inlets, and harbors on this coast. In 1891 a large number of the sealers transferred their catch to the English vessel *Danube* in Alitak Bay, Kodiak Island, to be transported to Victoria, British Columbia, before going west to the Bering Sea. *Danube*, 1891.

In purchasing fur-seals from hunters I have noticed that not less than 75 per cent of the catch taken previous to May 25 are female seals; and from the development of the teat on the skin were evidently females with pup. After that the catch is mostly young seals; and I paid most attention to the sex. I had in my employ men who are old seal-hunters, and who were formerly engaged in that business, and they have often told me that they lost at least two out of every three they killed, and that the seals are not nearly so plentiful as they were five or six years ago.

Mostly pregnant females taken.

Pups taken.

Waste of life.

Decrease.

In my journeys in these waters I have noticed that seals are much less plentiful than when I first went there five years ago, and that the decrease has been very marked in the last two years; and I have no doubt that it is caused by the killing of female seals in the water, and, if continued, will certainly end in their extermination.

Decrease due to pelagic sealing.

M. L. WASHBURN.

Subscribed and sworn to before me this 6th day of April, 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of Michael White, sealer (master).

HABITS.—PELAGIC SEALING

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Michael White, being duly sworn, deposes and says: I am 50 years of age. I reside in East Oakland. My occupation is master mariner, and I have been so engaged for twenty-seven years, off and on. I have been engaged in seal-hunting during the years 1885, 1886, 1887, 1888, and 1889, in the North Pacific and Bering Sea. I first went out in 1885 in the schooner *City of San Diego*, chartered by myself and others, and my catch for that year was between 2,300 and 2,400 seals. Of that number about 1,900 were caught in the Bering Sea. There were but very few vessels sealing at that time. In 1886 I was master of the schooner *Terese*, sailing from San Francisco on the 2d day of February, and commenced capturing seals on the coast of California, and followed them from that date north into the Bering Sea. We caught them from 5 to 60 miles off the coast. I entered the Bering Sea on the 6th day of June, 1886, and previous to that time had caught about 800 seals. Then I

Experience.

City of San Diego,
1885.

Sealing in Bering
Sea.

Terese, 1886.

Sealing off coast.

Entered Bering Sea.

sealed in the Bering Sea from that time to the 28th of August, caught about 2,200 more, the whole catch being 3,000 for the year. In 1887 I was master of the schooner *Lottie Fairfield*, sailing from San Francisco on or about the 17th day of March, and worked northward to the Bering Sea, and captured 883 seals. I then entered the Bering Sea about the 6th of July, cruising there until the 29th day of August, and took 2,517 seals more, the whole catch being 3,400 for the year.

In 1888 I took the schooner *Undaunted* on a fishing and sealing voyage, leaving here on or about the 20th of March, and cruised in the North Pacific up to the island of Kodiak, capturing 400 seals up to the 7th day of June. I did not enter the Bering Sea that year. I did the same in 1889, my trip being the same as in 1888, and my capture of seals was about the same. I then quit sealing, and I am now engaged in trading with the Gilbert and Marshall islands in the South Pacific Ocean. While master I was also engaged in shooting seals. I used both a rifle and double-barreled shotgun; the rifle for shooting "travelers" and the shotgun for shooting sleeping seals. The *City of San Diego* had four boats. Each boat had a hunter and two men to pull. The *Terese* had five boats similarly equipped. The *Lottie Fairfield* had six boats similarly equipped. The *Undaunted* had four boats. In my captures off the coast between here and Sitka 90 per cent of my catch were females, but off the coast of Unamack Pass there was a somewhat smaller percentage of females, and nearly all the females were cows heavy with pup, and, in some instances, the period of gestation was so near at hand that I have frequently taken the live pup from the mother's womb. I have never known of any seals to haul up and breed between here and Unamack Pass. I have often followed them very close in to the mainland, and have killed them sleeping on the water.

From my experience and observation relative to the fur-seal, I am firmly of the opinion that it is a physical impossibility for the mother seal to give birth to her young in the water and preserve it; but that it is necessary for her to haul up on the land to give birth and rear her young. I have never known or heard of their giving birth to their young other than on their regular hauling grounds; and know of no instances where male seals have hauled out on land on the western coast except at the Pribilof Islands. I never paid any particular attention as to the exact number of or proportion of each sex killed in the Bering Sea, but I do know that the larger portion of them were females, and were mothers giving milk. I have never hunted within 15 miles of the Pribilof Islands; but I have often killed seals in milk at distances of not less than 100 to 200 miles from these islands. From my knowledge and experience in the business it is my conviction that within the last few years, since the sealers have become so numerous in the Pacific and Bering Sea, that not more than one out of three is secured. Our purpose and practice was to take all the seals we could get, regardless of their age or sex, without any discrimination whatever. My experience is that the seals have been decreasing in numbers for the last six or seven years, and within the past two or three years very rapidly, owing to the indiscriminate killing of them by pelagic hunters and

Ninety per cent females.

Females pregnant.

Do not haul up on land.

Seals not born in water.

Land only on islands.

Pregnant females taken.

Females 200 miles from islands.

Waste of life.

Indiscriminate killing.

Decrease.

vessels engaged in that business in the waters of the North Pacific and Bering Sea.

If it be the desire of the Government to perpetuate them, it is very important that they be protected in the North Pacific, as well as in the Bering Sea, since it has been my observation that the seals are easily alarmed, and the killing of them with firearms has a tendency to frighten the herd; nor do I think it possible to preserve the herd if the great slaughter of female seals is to be continued. I also believe that if sealing is stopped in the Bering Sea only, such fact would tend to increase the price of sealskins, and there would be a much larger fleet fitted out for sealing in the Pacific than now, which would destroy the herd and prevent it from going into the Bering Sea. This opinion is based on the well-known fact that the value of sealskins is increased by the decrease in the number taken; and the higher the price of skins the greater the inducement to fishermen to hunt them in the North Pacific, which would soon destroy the seal-fishing industry everywhere.

Protection necessary.

Sealing in North Pacific.

MICHAEL WHITE.

Subscribed and sworn to before me this 1st day of April, A. D. 1892
[SEAL.]

CLEMENT BENNETT,
Notary.

Deposition of Theodore T. Williams, journalist, sent out by lessees to investigate pelagic sealing.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Theodore T. Williams, being duly sworn, deposes and says: I am by profession a journalist, being at the present time employed as city editor of the San Francisco Examiner, and have been employed in that and similar capacities in the city of San Francisco for the past thirteen years. During that time, and in the pursuit of my profession as a journalist, I have had occasion to make extended inquiries into the fur-sealing industry of the Aleutian Islands and the North Pacific.

Experience.

In addition to the information which I obtained for journalistic purposes, I was requested by the Alaska Commercial Company in 1889 to proceed to the north and make a complete and exhaustive examination into the open-sea sealing, its extent, its probable injury to the lessees of the sealing privileges on the Pribilof Islands, its effect on the seal herd, the profit to those engaged in it, and all other matters concerning it.

The object of the inquiry on the part of the Alaska Commercial Company, which company was at that time enjoying the lease of the Pribilof Islands from the United States Government, was to secure the data of illicit sealing, which they needed to base their estimates on in bidding for the lease, at the time of the expiration of the privilege they then held. In order to make a safe bid, to be in a position to offer the largest amount overlapping other competitors for the privilege, and at the same time not to pay more for the

Object of the inquiry.

privilege than it was worth, it was absolutely necessary for them to have the most accurate information relating to the probable destruction of the seal herd, and also relating to the probable size of the illicit catch in years to come.

The necessity for knowing thoroughly what the seal catch was likely to be arose from the fact that illicit skins come into competition with Pribilof Island skins in the London market, and affect their value very greatly. While the island skins are superior in quality and are of better average size and value, the effect of dumping 50,000 or 60,000 or more illicit skins on the market materially reduces the value of the Pribilof Island skin. It being the purpose of the Alaska Commercial Company to base their bid upon the information which I obtained for them, it was absolutely necessary for me to get accurate information. To the Alaska Commercial Company it made but little difference whether the expense of the investigation was small or great, but in a matter of such magnitude as a long lease of the Government sealing privileges in Alaska, an erroneous estimate about the effect of pelagic competition, or the diminution of the seal herd by pelagic sealing, would have the most serious consequences.

Fully understanding the responsibility which I accepted in undertaking the inquiry, the investigation I made was most thorough and careful. In no case did I accept secondary testimony where primary testimony was available; as, for instance, in finding the number of skins captured by vessels in former years, I did not rest at an investigation of the custom-house reports of Victoria, but in nearly every case secured access to the books and accounts of the managing owners of the vessels, and in every instance went to the books and accounts of the purchasers of the skins, and again compared their reports when possible with the reports of the auction sales in London, and where private sales were made with them.

In estimating the value of the vessels engaged in the sealing industry I pursued this plan. No one in British Columbia had any idea of what my real business there was, as I was careful to conceal that fact. I went to the builders of boats, to the owners of vessels, to the charterers of vessels, representing that I might be in need of such schooners as were engaged in the sealing trade, and received proffers of vessels at the selling values. I secured reports which Mr. Miln, the collector of the port of Victoria, had made to the Dominion Government, with the view for presentation with the British side of this question, and compared his reports with the cash value estimates of the owners of vessels and the offers of builders and others to furnish vessels.

In trying to arrive at the cost of outfit and the profits of sealing voyages I looked through the accounts of nearly one hundred voyages of sealing schooners.

In attempting to determine the sex of seals killed in the Bering Sea and the North Pacific, and of the number of seals killed in excess of those actually secured by the hunters, I had interviews with upwards of 50 seal hunters, aside from interviews subsequently had with Indian hunters. I found this portion of my work by far the most difficult. Much discussion had already been had about the damaging effect of pelagic sealing, and the hunters were loath to tell how many seals were killed and not recovered, and were often averse to making truthful reports about the sex of the animals killed; but by frequenting their haunts and cultivating their company for long periods I succeeded in getting accurate statements from a number of them.

I found that at first the hunters were disposed to brag of their skill and to overestimate their success in securing skins of seals shot at. The reason for that was that an impression prevailed among many of them that I was about to engage in sealing enterprises, and that I was making inquiries for the purpose of ascertaining their skill as hunters, with the view to engaging them.

The practice in British Columbia is to pay the best hunters the highest rate per skin. Men who could shoot fairly well, but who used a shotgun, could be secured for a sealing voyage from \$1 to \$1.50 per skin, while hunters who shot with the rifle and were of recognized skill in some instances were paid as high as \$2.50 per skin, and generally speaking as high as \$2 per skin. The reason for this is obvious to those who have interested themselves in the sealing business. A seal killed with buckshot is so much punctured frequently that the pelt is of lesser value. It is not profitable for schooners to engage as hunters men who miss their chances of killing the seals and blaze away indiscriminately with small results. Even though the hunter is only paid for the skin he recovers, the loss to the vessel by his failure to kill when an opportunity offers is equivalent to the profit it would have made on the skin if secured. For these reasons and on account of the general proneness of men, who consider themselves experts in the use of any weapon, to brag, the seal hunters of British Columbia, as a class, grossly exaggerate the percentage of skins they recover, to the number of seals aimed at, wounded, or killed.

Pay of seal hunters.

Hunters exaggerate their skill.

I have heard men say that they killed and recovered 90 per cent of all the seals they fired at, but on examination of the accounts of the schooners on which they had been employed previous voyages, I discovered that more than ten rounds of ammunition had been used for every skin that the vessel brought home.

As a result of that investigation in the Bering Sea and North Pacific and the investigations made subsequently, I discovered:

First. That 95 per cent of all the seals killed in the Bering Sea are females.

Waste of life.

Second. That for every three sleeping seals killed or wounded in the water only one is recovered.

Third. For every six traveling seals killed or wounded in the water only one is recovered.

Fourth. That 95 per cent at least of all the female seals killed are either in pup or have left their newly-born pup on the islands, while they have gone out into the sea in search of food.

The result is the same in either case. If the mother is killed the pup on shore will linger for a few days; some say as long as two or three weeks, but will inevitably die before winter. All of the schooners prefer to hunt around the banks where the female seals are feeding to attempting to intercept the male seals on their way to and from the hauling grounds.

Sealers prefer to hunt the female.

Aside from the greater difficulty of killing and securing the skin of a traveling seal, and the larger proportion of loss to the schooner, during the greater part of the sealing season, and more particularly in the Bering Sea, there are few males to be found in the water.

No other evidence of this is needed than the observation of the gentlemen who spend the season on the Pribilof Islands and who all agree in reporting that the male seals remain there, while the females, as soon as they are delivered of their young, go forth in search of food. The male seal sel-

Males remain on islands during the season.

dom sleeps in the water during the sealing season. When the northward migration begins in March, the male seals pursue their way with all diligence to the rookeries, and arrive there about thirty days ahead of the coming of the female seals. It must be plain from this, that the

Why fewer males are killed. opportunities for slaying male seals that are traveling rapidly through the water, must be far less than for killing female seals, who, making their way leisurely, feeding as they go, and resting frequently because they are heavy with pup, offer a far more extensive target to the rifle of the hunter.

The Indians with whom I conversed in British Columbia, and who had had a varied and extensive experience of sealing, not only as seal hunters for schooners, but when out in search of food, all declared, that the male seal seldom eat and never slept while on his way to the rookeries. They declared that as with the salmon when on its way to the spawning grounds, they had never found food in the stomach of the few male seals they had managed to capture.

So far as I was able to learn, the terms "sleeper" and "traveler" as applied to seals, had their origin among the Indians. They declared, and in that they are borne out by all of the white hunters, that the seal, when it is desirous of resting in the water, inflates a bladder in its body, which keeps it afloat. Whether this be so or not, makes no difference, but the fact is, that almost the only way the

Only sleeping seals killed by Indians. Indians have of killing seals is by paddling noiselessly up to the sleeping animal as it floats on the water, and spearing it.

Many of the schooners employ Indian hunters, who work much cheaper than the whites, who only use the spear, and never attempt to kill a traveling seal.

The reports of their catches show that all of their captures are females. It could not well be otherwise, for the male seals, in making their way to the rookeries, take a more northerly course, and go with all speed, while the females move towards the mouth of the Columbia, and other large fishing banks, following the runs of fish, or idly waiting until nature tells them that the period of gestation is about ended, and they then make their way to the rookeries to be delivered of their pups.

Only females killed by Indians. At the times when the male seals are on the rookeries, the large catches are made. A traveling seal is alert, cautious, quick of hearing, and easily disturbed. A sleeping seal is at the mercy of anyone. The large proportion of

Traveling seals difficult to catch. traveling seals shot at and lost is due to the timidity of the animal; in fact, all the hunters admit that when there is much shooting going on, the seals are very difficult to get. The loss of sleeping seals, which I estimate as two lost for one saved, is due to the fact that unless the bullet or shot kills the animal instantly, it will immediately dive, and it is not easy to kill a seal instantly. The head of the seal affords but a small mark. Even in the case of a sleeper, the motion of the water keeps it moving. The boat from which the hunter shoots is also moving, and while there are men, who, at a distance of 50 or 60 yards, can shoot a small object under such circumstances, they are extremely rare. They are famous as experts, and they are highly rewarded for their skill. Certainly not one in ten of all the seal hunters can truthfully assert, nor do they attempt to do so when in a confidential humor, that they kill 50 per cent of their seals dead.

Percentage of seals killed instantly. I was in the company of a number of them in Victoria in 1889, and heard them talking among themselves of their prowess. Some put forward

claims, which the others derided. Any estimate in excess of the one I have already given called forth uncomplimentary remarks and charges of boastfulness. The disinclination of these men to state the absolute facts, and they alone know what the facts are, in relation to the number of seals shot and lost, has been intensified lately by the feeling that it is necessary for them to make a good showing to back up the claim that pelagic sealing is not absolutely destructive of the seal herd.

In considering the number of skins taken during the past it must be borne in mind that the schooners have frequently been seriously interfered with in their work by the cruisers of the United States Government.

Mr. Miln, surveyor of the port of Victoria, in his report to the Dominion Government, of which I was so fortunate as to secure a copy, stated that if not interfered with by cruisers a large-sized schooner would surely capture 3,000 skins during the season in the Bering. Mr. Miln's estimate in that respect, as in many other matters, I found to be fair and honest.

Catch in Bering Sea of a large schooner, if not interfered with by cruisers.

The destruction of seals in the North Pacific Ocean, as well as in the Bering Sea, is largely confined to females. This fact can not be disputed successfully. I made an examination of the reports of the gentlemen who handled the North Pacific collection, up to and including the year 1889, and all agreed that the skins were nearly all from females.

Destruction in Bering Sea largely confined to females.

It may not be out of place to explain that the smaller value of the female seal, especially after the birth of her pup, is in a measure due to the wearing of the fur around the teats. The amount of merchantable fur being reduced to that extent, makes it necessary for the handlers of skins to observe carefully whether pelts are male or female, as well as their general condition. They make a complete classification, and being experts in their business, are not likely to make mistakes. The large proportion of females killed in the North Pacific is due to the fact, as I explained before, that the males pursue their way to the hauling grounds with dispatch, while the females are more leisurely in their movements and take frequent rests.

I append, as a part of this affidavit, a copy of the report I made to the Alaska Commercial Company on this subject in 1889, and which they used for the purpose hereinbefore set forth, and I desire to add that subsequent inquiry has proved that the statements and conclusions in the report I then made, were correct. It must be taken into consideration that the estimates of the profits of sealing voyages, and other matters contained in that report, were based upon the value of skins in that and former years. Subsequently skins have increased in value, and profits of large catches would therefore be proportionately greater, but the conditions of sealing have not changed since then, nor can they change, with the exception that the fleet of sailing vessels has largely increased, consequently the destruction of seals has been much greater in the last two years.

Affiant's report to lessees in 1889.

There can be no question, that if the seals are not protected, and this tremendous slaughter that is now going on in the sea is not immediately stopped, there will be a total destruction of the herd in a very short while.

Protection necessary.

THEODORE T. WILLIAMS.

Subscribed and sworn to before me this 4th day of April, A. D. 1892.

[SEAL]

CLEMENT BENNETT,
Notary Public.

To the President of the Alaska Commercial Company:

I have made a thorough and accurate examination of the seal-hunting industry of British Columbia which is carried on in Bering Sea, in accordance with the following instructions received from your company:

Affiant's report to lessees.

“Exact account of British Columbia fur-seal industry, to go back as early as possible and show the area over which the seals were hunted before the existence of the Alaska Commercial Company (1870) and during the early years of the lease.

Scope of the report.

“It should show the development and expansion of the business, in accordance with the enhanced value of skins, caused by the operation of the company.

“As exactly as possible it should give—

“Statistics of yearly catch and prices obtained for same at British Columbia, number of vessels employed, their value and cost of outfit, and any other details of the business possible.

“To be of value it should be accurate, and not merely approximate, as we desire to use the figures to base our estimate for bidding for renewal of the sealing lease, an important factor, in which must necessarily be the probability of the continuance of illicit sealing and its consequent depletion of the seal herd. The profits to illicit sealers being greater or less, will, of course, increase or decrease their number.

“There should also be a careful statement made and sworn to by competent men of the value of the vessels that have been seized and stranded at Unalaska or condemned elsewhere. All this should be prepared as honestly and correctly as possible, with no effort to minimize values, but only to state honestly, as near as may be, real values.”

STATISTICS OF YEARLY CATCH.

1881.

The first sealskins ever handled in British Columbia caught in the Bering Sea were taken in 1881. Prior to that year no vessels sealed in the Bering. In 1881 the American schooner *San Diego* caught 193 seals in the Bering and sold the skins to T. Lubbe of Victoria, British Columbia at \$9.25 per skin. These skins were shipped to London, as are nearly all of the skins bought in Victoria, British Columbia, and the trade, therefore, brought no profit to Canada, T. Lubbe being an American. I have, however, included the record of this and all other collections made by American ships in the Bering Sea when sold in British Columbia, because they all figure in the reports of the Victoria custom-house. In keeping the collection of the American and Canadian vessels from the Bering district, you can see at a glance the relative value of the Bering Sea collection to American and Canadian sealers.

No sealing in Bering Sea before 1881.

San Diego, 1881.

1882.

American schooner *San Diego*; Bering Sea collection, 327 seals, sold to T. Lubbe at Victoria, British Columbia, at \$8 per skin.

San Diego, 1882.

1883.

American schooner *San Diego*; Bering Sea collection, 908 skins; sold to T. Lubbe, Victoria, British Columbia, at \$10 per skin.

San Diego, 1883.

1884.

Bering Sea collection, sold in Victoria, British Columbia; American schooner *San Diego*, 980 skins, at \$8; American schooners *Otter* and *Alexander* landed in Victoria British Columbia, 1,700 skins to be reshipped to H. Liebes & Co., of San Francisco, owners of the two vessels; British schooner *Mary Ellen*, 1,409 seals, sold at \$7.50 per skin.

San Diego, Otter, Alexander, and Mary Ellen, 1884.

Thus it will be seen that the British Columbia seal industry in the Bering began in 1884. The *Mary Ellen* was owned by D. McLean, was of 63 tons, had a crew of twenty-one whites and was worth \$6,000, including her outfit.

1885.

Bering Sea collection: American schooner *City of San Diego*, 1,953 skins, at \$7.60; American schooner *Vanderbilt*, 1,244 skins, at \$7.60; American schooner *San Diego*, 1,726, at \$7.39; American schooner *Lookout*, 1,100, at \$7.50; British schooner *Favorite*, 1,383, at \$7.60; British schooner *Mary Ellen*, 1,773, at \$7.60.

City of San Diego, Vanderbilt, San Diego, Lookout, Favorite, and Mary Ellen, 1885.

1886.

Bering Sea collection: American schooner *Anne*, 182, at \$5.50; American schooner *Therese* (since sailed under British flag), 2,000, at \$6.50; American schooner *Sylvia Handy*, 1,700, at \$6.50; American schooner *City of San Diego*, 1,600, at \$6.50; American schooner *Helen Blum*, no record. The British schooners, *Onward*, *Caroline*, and *Thornton*, were seized in the Bering with about 2,000 skins on board.

Anne, Therese, Sylvia Handy, City of San Diego, Helen Blum, Onward, Caroline, Thornton, 1886.

The *Caroline*, though under the British flag, was owned one-half by an American named Bechtel, who furnished also the money for the outfit. Bechtel is interested also in the British schooners *Mary Taylor*, *Pathfinder*, and *Viva*.

The ships were put under the British flag in defiance of the British merchant shipping act, which forbids any partnership or beneficial interest in any British ship by a foreigner. To secure himself in case of trouble Bechtel has mortgages on the schooners. The *Thornton* was owned half by J. Boscowitz, an American, who owned and now owns all or part of every schooner registered under the British flag in the name of Captain Warren. This fact came out a short time ago in a lawsuit in Victoria between Warren and Boscowitz. The books of the firm being produced, it was shown that Boscowitz not only owned and shared a half interest, but had advanced moneys for Captain Warren's share, on which he collected interest. I append a duly certified copy of part of the evidence in the suit of Warren v. Boscowitz and Cooper, copied from the archives of the court in Victoria and fully certified to by Harvey Coombe, esq., deputy registrar of the supreme court of British Columbia, over the great seal of the Dominion of Canada.

Transfer of sealers to British flag contrary to provisions of British merchant shipping act.

Besides the 2,000 skins taken by the seized sealers, the collections in the Bering Sea by British schooners were:

British schooner	<i>Dolphin,</i>	2,200	at	\$7.00
"	" <i>Alfred Adams,</i>	1,455	"	7.00
"	" <i>Active,</i>	1,338	"	7.00
"	" <i>Black Diamond,</i>	828	"	7.00
"	" <i>Pathfinder,</i>	1,700	"	6.65
"	" <i>Sierra,</i>	1,000	"	6.50
"	" <i>Favorite,</i>	3,492	"	6.50
"	" <i>Anna Beck,</i>	1,142	"	6.65
"	" <i>W. P. Sayward,</i>	1,600	"	6.50
"	" <i>Grace,</i>	1,700	"	6.50
"	" <i>Mary Ellen,</i>	3,559	"	6.50
"	" <i>Penelope,</i>	194	"	5.50
"	" <i>Mountain Chief,</i>	630	"	6.50

The principal reason for the fluctuation in prices this year and in other years was the disturbed condition of the London market, caused by reports of large collections, and so greatly did the catch of 25,000 skins affect the market that the skins sold for less in London than was paid for them in Victoria, British Columbia, entailing loss on the purchasers.

Disturbed condition
of London in 1886.

1887.

The seizures in the Bering Sea in 1886 stopped the American sealers from fitting out in 1887, with the exception of two schooners commanded by British Columbians, who decided to take the risk. It was openly declared at Victoria that the United States Government would not go farther than remonstrate.

The American boats that entered the Bering Sea were the *City of San Diego*, which made a catch of 1,187 seals, selling at \$5.50, and the *Vanderbilt*, 1,349 skins, at \$5.50.

The catch by British sealers was:

British schooner	<i>Mary Taylor,</i>	1,000	at	\$6.00
"	" <i>Penelope,</i>	1,292	"	5.50
"	" <i>Pathfinder,</i>	2,377	"	6.00
"	" <i>Mary Ellen,</i>	2,130	"	5.50
"	" <i>Black Diamond,</i>	990	"	5.50
"	" <i>Mountain Chief,</i>	624	"	5.50
"	" <i>Favorite,</i>	1,887	"	5.50
"	" <i>Therese,</i>	900	"	5.50
"	" <i>Kate,</i>	1,625	"	5.50
"	" <i>Triumph,</i>	500	"	5.50
"	" <i>Lottie Fairfield,</i>	2,507	"	5.50

The *Ada*, *Anna Beck*, *Dolphin*, *Grace*, and *W. P. Sayward* were seized by the United States Government.

1888.

Bering Sea collections, sold in Victoria in 1888:

British schooner	<i>Juanita,</i>	1,030	at	\$5.62 $\frac{1}{2}$
"	" <i>Mary Ellen,</i>	700	"	5.62 $\frac{1}{2}$
"	" <i>Triumph,</i>	2,470	"	5.62 $\frac{1}{2}$

British schooner	<i>Annie C. Moore,</i>	715	at	\$5.62 $\frac{1}{2}$
"	<i>Black Diamond,</i>	765	"	5.62 $\frac{1}{2}$
"	<i>Pathfinder,</i>	600	"	5.62 $\frac{1}{2}$
"	<i>Viva,</i>	2,069	"	5.62 $\frac{1}{2}$
"	<i>Favorite,</i>	2,349	"	5.62 $\frac{1}{2}$
"	<i>Maggie Me,</i>	1,424	"	5.62 $\frac{1}{2}$
"	<i>Penelope,</i>	1,054	"	5.62 $\frac{1}{2}$
"	<i>Mountain Chief,</i>	781	"	5.62 $\frac{1}{2}$
German schooner ¹	<i>Adele,</i>	450	"	5.62 $\frac{1}{2}$
American schooner	<i>Anne,</i>	1,040	"	5.62 $\frac{1}{2}$
"	<i>Webster,</i>	520	"	5.62 $\frac{1}{2}$
"	<i>Olson,</i>	500	"	5.62 $\frac{1}{2}$
"	<i>Walter A. Rich,</i>	400	"	5.62 $\frac{1}{2}$
"	<i>Allie I. Alger,</i>	380	"	5.62 $\frac{1}{2}$

1889.

Bering Sea collection, 1889, landed at Victoria, and all shipped to England and United States.

So far the average selling price at Victoria has been \$7.65.

German schooner	<i>Adele,</i>	1,600
American schooner	<i>Allie I. Alger,</i>	284
"	<i>Newton,</i>	239
"	<i>J. G. Swan,</i>	60
"	<i>Henry Dennis,</i>	700
British schooner	<i>Pathfinder,</i>	50
"	<i>Viva,</i>	2,180
"	<i>Annie C. Moore,</i>	1,300
"	<i>Maggie Me,</i>	1,290
"	<i>Sapphire,</i>	1,629
"	<i>W. P. Sayward,</i>	1,600
"	<i>Kate,</i>	911
"	<i>Favorite,</i>	None
"	<i>Penelope,</i>	1,850
"	<i>Black Diamond,</i>	55
"	<i>Lily,</i>	74
"	<i>Ariel,</i>	834
"	<i>Minnie,</i>	521
"	<i>Beatrice,</i>	700
"	<i>Therese,</i>	None.
"	<i>Mary Ellen,</i>	None.

The record of the collection as given above is from the custom-house at Victoria and verified by the principal purchasers. The price paid for skins came from the account books of the purchasers and were verified by current price lists published in the London fur market.

VICTORIA'S INVESTMENT.

NUMBER OF SCHOONERS EMPLOYED SEALING IN THE BERING, AND THEIR VALUE.

The second branch of my investigation was the number of vessels owned by Canadians engaged in sealing in the Bering Sea, their value, cost of outfit, etc. Vessels, and value thereof.

There are in the business: Twenty-four schooners. Total tonnage, 1,464 tons. Total value, including outfits, \$173,350. Whites employed, 261. Indians employed, 385.

¹ Took from Bering.

Of these twenty-four schooners sailing under the British flag, five are owned half by Americans. These five schooners illegally under the British flag are worth \$36,500, leaving an actual Canadian investment of \$136,750.

NO ACTUAL INVESTMENT.

Reasons therefor. But there is really not one dollar actually invested in the Bering Sea sealing, and for these reasons:

(1) All the schooners are engaged in other business, such as hunting and fishing down the west coast and in the North Pacific.

(2) If the sealing business was stopped entirely the schooners would not depreciate a dollar in value.

(3) The sealing business requires no special plant, weapons, or utensils. The schooners are common schooners, the boats common boats, and the guns common guns which will bring their value at any time for any other purpose.

(4) Less than one-third of a sealing schooner's cruise is in the Bering.

ESTIMATING VALUES.

It is a simple task to arrive with exactitude at the value of the schooners and their outfits. They cost to build in British Columbia \$80 per ton. In the United States the cost is \$100 per ton. The gross tonnage of the fleet being 1,464 at the American rate of \$100 a ton it would represent \$146,400, at the Canadian rate \$117,120.

This would be for the schooners as they are delivered new, with masts, sails, anchors, and fittings.

Some of the sealing schooners are fine, new boats, others are very old. The *Mary Taylor* and *Mary Ellen* have both seen thirty-five years of buffeting about the stormy ocean, while the *Lilly* has been forty-six years afloat. The *Black Diamond* is really unfit for sea, and the *Juanita* was driven out of the coast trade as unsafe and past repair. This was the fate of the *Wanderer* also. The *Letitia* I saw lying in the Victoria bone-yard being broken up, and the *Mountain Chief* is ready for the same fate.

In order to get an exact valuation, I procured, when possible, the record of the latest sale of the vessel, and in other cases employed an expert shipbuilder or took the valuations of the underwriter's expert, not on the amount for which the vessel was insured, but his estimate of what it would cost to replace her.

In every case the value I have given, except in case of actual sale, is rather more than the vessel would sell for in an ordinary bargain.

In the course of my investigation as to the value of the trade to Canada, I secured a copy of a report made for the Dominion Government by A. R. Miln, esq., surveyor of the port of Victoria. While Mr. Miln is naturally prejudiced somewhat in favor of his Canadian friends in

preparing a report which will be made the basis of their claim on the United States Government, he is clearly an honest official and has done his work generally correct.

His estimate of the total value of the Victoria sealing fleet is \$200,500, or \$27,150 in excess of my valuations. As his figures are certain to be the ones adopted by the Canadian Government, I took special pains to correct my valuations thoroughly when they differed from his. I found that in many cases he had taken the owner's valua-

tion, which was far in excess of the real value. I append the real value as compared with Mr. Miln's estimates, and also a copy of Miln's report made August 17, 1889, sworn to before A. L. Belyea, esq., Victoria, British Columbia, and forwarded to the governor-general of Canada.

As a sealing schooner is only engaged one-third of her time in the Bering, the other two-thirds being spent in the west coast sealing, fishing, otter hunting, or some other business, only one-third of the fleet's value can properly be said to be invested in the Bering sealing business. The actual cash investment of all the Canadas in this traffic is therefore one-third of \$136,750, or the insignificant sum of \$45,585.33, and even that would not be lost if the traffic were stopped.

OUTFIT, ADVANCES, ETC.

Both Miln's valuations and my own include the cost of the sealing outfit. The value of an outfit for sealing depends upon the size of the schooner, the number of men and boats she carries, and whether or not they are Indians. As you will see by one of the tables appended, there were this year 383 Indians and 261 white men employed on sealing schooners fitted out in Victoria, and where white men are employed, the schooner carries boats of American make, has her hunters armed with rifles and shotguns, and carries all told a crew of 4 men to each hunting boat. The men are engaged in this way: The hunter who shoots the seal has two men in his boat to row him, making 3 men actually in the boat, and a few hands are left on board the schooner to handle her. Thus, a schooner having a crew of 20 men all told, would have 5 boats and 5 hunters. The cost of the outfit is, for such a schooner:

Five boats costing in San Francisco, where they are all built, \$100 each.....	\$500
Five Marling rifles, at \$35.....	175
Five shotguns, at \$35.....	175
Two extra guns.....	70
Salt for seal skins.....	200
Five thousand rounds ammunition for guns and rifles.....	125
Provisions for twenty men four months, at \$8 per head per month.....	640
Insurance, one-third of year.....	175
	<hr/>
	2,060

EXPENSES OF A TRIP.

The expenses of a sealing trip in the Bering are, for a four months' cruise:

Captain, wages, at \$100.....	\$100
Tenseamen, at \$35 per month.....	1,400
Five ordinary seamen or boys, at \$20 per month.....	400
Paid to hunters, at \$2 per skin, 1,600 an actual average.....	3,200
	<hr/>
	5,400
	<hr/>
Total expense and outfit.....	7,460

As the hunters are paid by the skin, the expenses would be more if the catch was larger. The expense of a six-boat schooner would be proportionately greater as it would be if the cruise was made longer. Miln's estimate in his report to the governor-general of Canada, is based on a longer cruise in a large schooner, and is no doubt a fair estimate.

Still the actual expenses of a schooner can not be figured accurately

except by the owner, who charges every item of expense against her as it is paid out, and the figures I have given only serve as an approximate guide to the average profits of a sealing trip. According to Mr. Miln's estimate, a big schooner catching 2,000 seals (an observedly high estimate) would make a profit of \$4,440 on her trip, if the skins sold for \$7.50 each, and he adds that she could catch 3,000 skins if undisturbed by a United States Revenue cruiser, and if she could, two things would happen. Skins would drop to next to nothing in value and there would be no seals next year.

There are 24 Victorian schooners in the trade and 32 San Francisco and Puget Sound schooners, making a total of 56 schooners. At the rate of 3,000 skins to the schooner, they would, if undisturbed, take 168,000 skins. As the seals Bering are nearly all females either in young or having just pupped, the loss of seal life would be 336,000. To this must be added 168,000 killed and wounded seal and their pups not caught, making a total of 672,000 seal killed with the present fleet.

Total number of Canadian and American vessels in fleet.

they kill in the

Estimated destruction of seal life by said fleet, if unrestricted.

COST OF INDIAN OUTFIT.

Where Indians are employed as hunters, the expense of the outfit and voyage is much less. The Indians hunt from their own skin canoes, kill with spears instead of firearms, so that other seals are not frightened away, and feed themselves on seal blubber. They are paid \$1.50 per skin and seal with two men to the canoe, one to spear and one to paddle. The cost of an outfit for a schooner carrying thirty Indians, which is a common number, is fifteen skin canoes at \$20, \$300.

The expense of the voyage is for the wages and board of a white captain and four sailors, salt for seal skins and a little tea and crackers for the Indians.

Indian sealing being so much cheaper and more profitable all the schooners would engage Indians were it not for the fact that these Siwash are an extremely troublesome race and require the utmost tact and skill to manage. Only a few captains can handle them to advantage and they are mostly captains who have Siwash blood in their veins.

Why Indians are not preferred.

LOSING WOUNDED SEALS.

The statement I made that the capture of 168,000 skins meant the death of 720,000 seals, needs some explanation. The sealing fleet begins work in the Bering Sea about June and is all back home by the end of September. During this period there are but few seals in the waters of Bering Sea, except females. The male seals are all at the breeding islands, either guarding their harems or waiting the coming of the females. Ninety-five per cent of all the seals killed during summer and autumn in the Bering are females.

95 per cent of seals killed in Bering Sea females.

Thomas Mowat, esq., inspector of fisheries for British Columbia, in his report to the governor-general of Canada, says that only 1 per cent of the Bering collection are pups.

The female seals killed in the Bering are either on their way to give birth to their young or have left their pup on the islands, and, guided

by that instinct given by nature to all mothers, have gone forth to search for food to sustain the life of the little one. In either case the death of the mother means the death of the young.

Females feeding.

In the list of skins offered for sale in the London market there appears the classification "black pups." These are the skins of unborn seals torn from the wombs of their dead mother. It is not a pleasant picture, but it can not be avoided.

"Black pup" skins

The soft-eyed seal mother, making her rapid way through the Bering Sea to reach the islands in time to bring forth her young, for she knows that the time of gestation is nearly at an end, with every instinct of her nature concentrated in the thought of her expected delivery, in that condition, of all others, most demanding the consideration of brutes, let alone of men, is slain by the ruthless seal hunters and her pup dragged moist from the womb that his skin may figure among the proceeds of the sealer's trip. There is something so revolting, so hideous in this slaughter that even the sealers themselves do not care to talk about it.

So, too, is revolting the slaughter of the female seal that has given birth to her pup and gone out into the sea to find food to sustain the lives of both of them. She leaves her pup on shore, a helpless, tiny thing, soft and pulpy, and only able to wriggle and bark. Nature has taught her to recognize it among hundreds of thousands by its plaintive bleat, and the eagerness with which she rushes to its side when she comes ashore shows how much she loves to fondle and care for it. If the mother is killed the pup will linger on for a time, only to die of starvation in the end, or, because of weak-

Dead pups.

ness, be dashed to pieces in the first storm. Thousands of these orphan pups are found along the coast after a severe storm, dead, because they had not sufficient strength to exist in their natural element. Had their mothers been spared till it was time for the pups to take to the water and live on fish of their own catching, no storm that ever raged in the Arctic Ocean could disturb them. The seal pup can live a long time without food, which is a wise provision of nature, because the mother often has to go a very long distance to fish, but after a few days, if the mother does not return, the pup's vitality becomes exhausted and it dies.

WHAT HUNTERS LOSE.

In attempting to ascertain exactly the number of seals killed and lost by the Bering Sea hunters, I found a wide divergence of statement.

What hunters lose,

It is greatly to the advantage of the seal hunter to have the reputation of losing but few seals. He is paid by the skin, and the more he catches the greater his remuneration, but that is not all. The hunter with the best reputation as a sure catcher is in the greatest demand, can secure employment in the best schooner and the largest sum of advance money. Besides self-interest, there comes vanity to urge the hunter to make the biggest reputation possible for himself.

To use a common expression, the seal hunters all brag about their sureness of aim. The best shots use a rifle and fire at a range of from 50 to 125 yards. The poorer shots depend on a shotgun loaded with buckshot, and will fire

Why hunters boast of their skill.

at a seal up to 50 yards away. The Indian hunters use spears, and paddle noiselessly up to the sleeping seal to plunge the spear in its shoulder. They never attempt to spear a seal that is awake. An Indian hunter will paddle in among a lot of "sleepers" and spear them,

one after the other, while a white hunter who uses firearms alarms every seal in the neighborhood at the first discharge.

The Indians lose about one-third of all they spear either from failure to kill when they strike or because the dead seal sinks too quickly for them to secure it.

The white hunters do not get one-half of all they shoot. Some hunters are very careful shots and will not fire unless the seal is well within range, but the seal is likely to sink before the boat can get to it, or, if wounded, will dive like a flash to get away. A number of hunters have boasted that they secure ninety-five seals for one hundred shots, and some have made affidavits of even more wonderful exploits. They presume too much on public ignorance and credulity.

Only the head of a seal appears for them to aim at. They are shooting at a moving object from a moving boat, and it is absurd to pretend that 95 per cent of their shots are fatal, and that all the seals they kill are picked up before sinking. It is as absurd as though a hunter on land should boast of killing 95 per cent of all the birds he aimed at. There are a few good seal hunters whose loss does not exceed 25 per cent, but they are as well known in the North as champion baseball players in America, and form but a small proportion of the 200 seal hunters who signed for the trip this year.

Fortunately it is not necessary to depend on the statements of the seal hunters. I secured access to the ship accounts of several sealers, and found that in every case the consumption of ammunition showed more than ten cartridges used for every sealskin captured.

I spent considerable time among the Siwash Indian sealers, and, while they brag of their individual prowess, they admitted a loss of 30 per cent at least. On this subject I append a statement made by Captain Olsen, of the sealing bark *Bessie Ruter*, of Victoria:

Captain Olsen, of the American schooner *Bessie Ruter*, of Astoria, reached Victoria September 27, 1889. In the office of the American consul, Col. R. Stevens he said: "I took 550 skins in the Bering. Of these 27 were pups, 520 females, and 3 male seals, which I killed off the island of Kodiak. Most of the female seals were with young. I had a green crew and green hunters. They used shotguns and sometimes the rifle. They got about 1 seal for every 3 they aimed at. Some they missed altogether, and some of the wounded ones got away. There is great risk of losing a traveling seal. The sleeping seal blow up an air bladder that keeps them from sinking, but the seal when awake sink easily. Hooks are used to grapple them, but if the boat is some distance from the seal when it is killed it does not often get it. For that reason rifle shooting at long range hardly pays. I will get about \$7.75 for some of my skins and \$8 for others. My voyage will pay because I ran the boat on the cheap. I only had two men to the boat, and only paid my hunters \$1 a skin, instead of \$2, which is paid to first-class hunters. Some very skillful hunters do not lose many skins. They will never fire unless a seal is at close range, and they generally kill. Of course they lose some from sinking. All the hunters brag about how few they lose, because they want the reputation of being good hunters. The better reputation they have the better chance they get.

"If the Bering Sea was open many new men would come into the business, and the loss would be greater. Only a few men make suc-

cessful hunters. It is like being a clever rifle shot. If the best hunters lose ten or fifteen in a hundred the other kind lose ten times as many, if not more. Green hands will throw away a lot of ammunition, shooting at everything they see, whether it is in range or not. You can not stop them. They will wound more than they kill. If the mother of a young seal is killed the pup is very likely to die. It will be so weak that the first storm will dash it ashore and kill it, or it may die of starvation. I have seen pups hardly larger than a rat from lack of nourishment. A starved or neglected orphan pup is nearly sure to die. At one storm the natives found over three hundred pups washed ashore in a little cove, and the water around was full of dead pups. It is certain that nearly all the dead pups were orphans. The female seal when suckling her young has to go out into the ocean in search of food, and it is those females, or females on the way to the breeding grounds to give birth to the young, that we kill in the Bering Sea. We find some barren female seals—female seals too old to breed, or that for some reason have not bred. I have often wondered that there are not more barren seals. The males on the islands will secure twenty or twenty-five females, and the male being constantly engaged in fighting, it is likely that many of the females are neglected. A young seal does not take to the water naturally. He has to be taught to swim. The hair seal will pup anywhere, and the pups will go right into the water, but the fur seals are forced to go ashore to bring forth their young and forced to leave their young on land, while they go into the water to feed and bathe. I suppose that if everyone could kill seal in the Bering in a few years the seals would all be dead except the males, and in time the seals would be exterminated.”

Dead pups.

Females feeding.

Pups not amphibious.

VALUE OF SEIZED VESSELS.

In ascertaining the value of the vessels that have been seized by the United States Government for illegal sealing in the Bering Sea I got the record of actual sales in every case where the vessel had changed hands during the past six years. Many of the schooners were bought by their last owners at private sale, but others had been sold at auction. The seized schooners belonging to Boscowitz and Warren were all sold at auction in the year 1885 and were bought in by a party in the interest of Boscowitz for \$1 each above the lien on them. No one bid higher than that, for the excellent reason that the lien represented in every case the full value of the boat and outfit, and was given by Warren, in whose name the boats stood, to secure Boscowitz, who, being an American, could not legally own an interest in boats sailing under the British flag. I append a certified copy of the sale of these vessels at public auction in Victoria in 1885.

Value of seized vessels.

T. T. WILLIAMS.

VICTORIA, B. C., *October 1, 1889.*

UNITED STATES OF AMERICA,

State of California, City and County of San Francisco, ss :

I, Clement Bennett, a notary public in and for said city and county, residing therein, duly commissioned and sworn, do certify that on this 4th day of April, A. D. one thousand eight hundred and ninety-two, I carefully compared the foregoing copy of a report of T. T. Williams

with the original thereof, now in the possession of the Alaska Commercial Company of San Francisco, California, and that the same is a full, true, and correct transcript therefrom and of the whole of said original report.

In witness whereof I have hereunto set my hand and affixed my official seal at my office, in the city and county of San Francisco, State of California, this 4th day of April, A. D. 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of John Woodruff, sealer.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss :

John Woodruff, having been duly sworn, deposes and says: I am 21 years of age. My occupation is that of a boatman. I live in San Francisco. I went on a sealing voyage last year in the schooner *Southerland*. We left San Francisco in March, sealing all the way along the coast. We put in at Sand Point, staying there a week, and then entered the Bering Sea. We were in there about a week and a half, and were ordered out by the Revenue Cutter *Rush*. We caught a few seals in there. When we first went in there we did not see many, but after we were in there a while we saw plenty of them that had large breasts that were full of milk, and our catch were most all females; the average would be about one male to ten females, and we killed cows in milk 150 miles from the seal islands. A green hunter would get one out of every five or six that he shot or killed, and an experienced hunter might kill three or four and get one. A great many that we shoot sink.

After we left the Bering Sea we hove to outside of Unamak Pass, staid there about three days, and started home, killing a few young pups on the way down. Our entire catch for that trip was between 368 and 378 seals. We landed most of them at Sand Point. The catch we made from there to San Francisco we landed here. I saw a good many vessels going into the Bering Sea. There was also quite a number of vessels at Sand Point. Some of the vessels go through Unamak Pass and some go through the Four Mountain Pass. That was the only voyage I made. The seals are getting wild and hard to catch. There are a great many green hands in the business. We shot at everything that came along. We were getting 50 cents for every skin obtained. Our boats went 30 and 40 miles from the schooner. Sometimes they would leave in the morning at 5 and not return until next day at 4 or 5 in the evening.

JOHN WOODRUFF.

Subscribed and sworn to before me this 5th day of April, A. D. 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of George Zammitt, sealer.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

George Zammitt, having been duly sworn, deposes and says: I am 31 years of age. I reside in San Francisco. I am a machinist by occupation. I made a sealing voyage on the schooner *Seventy-six* about eight years ago. Captain Potts was master of her. We did not hunt at all going up the coast. We left here and went direct to the Bering Sea. We went over to the Copper Islands, on the Russian side, but were driven away, and we came back towards the St. Paul and St. George Islands and caught about 200 seals. We were driven away from there, and then the vessel returned to Victoria, British Columbia, and I left the vessel there. We only used rifles. We shot mostly females. I was boat-puller and did other work also. During the voyage we lost the mate, who was washed overboard, and we also lost two boats at the same time in a storm. We sailed from this city. We fired at all the seals we could, regardless of their sex. We got one out of every six or seven we shot at or killed.

Experience.

Seventy-six, 1880.

Entered Bering Sea.

Went to Copper Islands.

Driven away by Russians.

Caught 200 seals.

Shot mostly females.

Indiscriminate killing.

Waste of life.

GEORGE ZAMMITT.

Subscribed and sworn to before me this 5th day of April, A. D. 1892.

[L. S.]

CLEMENT BENNETT,

Notary Public.

TESTIMONY RELATING TO THE GENERAL SEALSKIN INDUSTRY IN THE UNITED STATES.

Deposition of George Bantle, packer and sorter of raw fur skins.

GENERAL SEALSKIN INDUSTRY.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

George Bantle, having been duly sworn, deposes and says: My age is 53. I reside in San Francisco. I am a packer and sorter of raw fur skins, and have been engaged in that occupation for the last twenty years. My calling has made me a judge of raw seal skins, as I have handled in the last ten or twelve years from 10,000 to 15,000 annually.

I can tell by examining a skin whether it was caught in season or out of season, and whether it was caught on the Russian side or on the American side. A Russian skin is generally coarser, and the under wool is generally darker and coarser than the skins of the seals caught on the American side. A Russian skin does not make as fine a skin as the skins of the seals caught on the American side, and are not worth as much in the market. I can easily distinguish one from the other.

Difference between Russian and American. I can also tell by examining a skin whether it has been taken from a female or male.

I have examined and sorted a great many thousand skins taken from sealing schooners, and have observed that they are nearly all females, a few being old bulls and yearlings.

Nearly all female. A female seal has a smaller head, and a larger belly, when with young, than a male seal, and the fur on the belly part, where the teats are, in consequence of being worn, is not worth much, and has to be cut off after being dyed.

G. BANTLE.

Subscribed and sworn to before me this 8th day of April, A. D. 1892.
[L. S.]

CLEMENT BENNETT,
Notary Public.

Deposition of C. Francis Bates, member of the firm of Martin Bates, jr., & Co., furriers.

GENERAL SEALSKIN INDUSTRY.

STATE OF NEW YORK,

City and County of New York, ss:

C. Francis Bates, being duly sworn, says: I am a member of the firm of Martin Bates, jr., & Co., and am the person described in and who veri-

fied an affidavit on the 22d day of June, 1892, relating to the value of the industry of manufacturing seal-skin articles in the United States, and other matters.

I have signed the firm name to the statement hereto annexed, which has been prepared from a careful examination of the firm books, and I know it to be true in all respects. The seal skins therein referred to were all purchased at Victoria, British Columbia, and are of the class commonly known as northwest coast skins, *i. e.*, skins from animals which were caught in the Pacific Ocean or in the waters of Bering Sea. The statement represents all of the skins of this class which were purchased by my firm between the years 1880 and 1890, inclusive, together with the full prices paid for them. I believe these prices to represent the average value of northwest coast skins at Victoria during these years, except that the price paid for the small lot purchased in 1890 is, as I am informed, below the average for that year. I find, however, upon referring to my books, that this lot was composed of small skins, some of them in poor condition.

During the year 1891 we purchased no northwest coast skins, and I am therefore unable to state, of my own knowledge, their value in that year, but I understand that in the fall of 1890 and in 1891 it was very much higher than in any previous year, owing entirely to the diminished catch of sealskins upon the Pribilof Islands by the lessees of the Government during those years.

C. FRANCIS BATES.

Sworn to before me this 22d day of June, 1892.

[SEAL.]

GEORGE KISSENGER, Jr.,

Notary Public (No. 99) City and County of New York.

Statement by Martin Bates jr. & Co., of New York.

Year.	Number of seal skins purchased in Victoria.	Average price per skin.	Total price.
1880.....	4,355	\$11.10	\$48,342.50
1881.....	5,303	9.35	49,578.28
1882.....	8,780	5.80	50,907.87
1883.....	6,893	5.90	40,700.10
1884.....	11,527	5.38	62,052.26
1885.....	13,436	5.27	70,867.90
1886.....	16,797	4.89	82,211.64
1887.....	2,996	4.72	14,141.75
1888.....	3,805	4.35	16,535.60
1889.....	506	5.74	2,906.90
1890.....	369	5.70	1,735.00
Total.....	74,767	.....	439,979.80

Deposition of Max Heilbronner, Secretary of the Alaska Commercial Company of San Francisco.

SEALSKINS PURCHASED BY ALASKA COMMERCIAL CO.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Max Heilbronner, having been duly sworn, deposes and says: I am the secretary of the Alaska Commercial Company of San Francisco, and as such have custody of all accounts of said company.

Statement of skins purchased by company from 1871 to 1891.

The following tabulated statement prepared by me from those accounts shows the fur-seal skins purchased and shipped to the company by its agents at Kadiak and Unalaska and from miscellaneous sources from 1871 to 1891, inclusive:

Date.	Unalaska.	Kadiak.	Miscellaneous.	Total.	Date.	Unalaska.	Kadiak.	Miscellaneous.	Total.
1871	516			516	1883	1,546	106		1,652
1872	700	78	725	1,503	1884	2,183	35		2,218
1873	444		1,905	2,349	1885	1,389	96		1,485
1874	1,223			1,223	1886	2,821	223		3,044
1875	356			856	1887	4,687			4,687
1876	562			562	1888	1,757	494		2,251
1877	2,500			2,500	1889	3,046	95		3,141
1878	2,001	12		2,013	1890	2,679	543		3,222
1879	1,207	124		1,331	1891	2,925	471		3,396
1880	930	11		941					
1881	880	59		939	Total.				40,988
1882	1,030	129		1,159					

The district covered by the company's agency at Unalaska embraces the stations at Unga, Bolkoffski, Sannak, Akoutan, Moshrovia, Umnak, Atka, and one or two smaller posts. I am credibly informed by those cognizant of the business and believe that a large majority of the skins from this agency were captured in the North Pacific. The district embraced by the Kadiak Agency includes the stations at upper and lower Kenai, Prince William Sound, and several trading posts on Kadiak Island, and without doubt all the skins from this agency were caught in the North Pacific. A large majority of all the skins from both places were pups a few months old. The skins under the head of miscellaneous were bought from different vessels which brought them to San Francisco. I think they were all or nearly all caught in the North Pacific.

Districts covered by company's agencies at Unalaska and Kadiak.

Majority of skins those of pups.

MAX HEILBRONNER.

Subscribed and sworn to before me this 2d day of May, A. D., 1892.

[L. S.]

CLEMENT BENNETT,

Notary Public.

Deposition of George Liebes, furrier, of San Francisco.

PELAGIC CATCH.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

George Liebes, having been duly sworn, deposes and says: My age is 25. I reside in San Francisco. I am a furrier and dealer in dressed

Experience.

and raw furs by occupation. I have been engaged in that business for the last six years. I have been going to Victoria for the last two years for the purpose of buying both land and sea furs. In 1890 I examined 14,000 fur-seal skins that were brought down on a tender from Sand Point, Alaska. That was the entire catch of the Victoria sealing fleet up to that time, the middle of June. It was transferred at Sand Point so that the schooners which had the catch on board could enter the Bering Sea clear of all skins, in case they might be overtaken and searched by revenue cut-

ters. The proportion of females in this lot was over 90 per cent. It was very easy to distinguish the males from the females on account of the formation of their heads, the belly being swollen out of shape, the teats showing signs of development, and also showing that the seal had been full of young and had evidently been cut open and the young removed. There were also some black pups among the lot, which are the skins of unborn seals and have no commercial value.

90 per cent females among coast skins.

I am informed and believe that the reason of there being such a large proportion of females among the coast skins is because the male, which is powerful and strong, usually swims more rapidly and at a longer distance from the coast, and are so scattered and active and hard to catch that it does not pay to hunt them. The female heavy with young easily tires, and sleeps on the water, and is easily shot while in that condition.

Reason for the large proportion of females.

I also examined a portion of the catch brought to Victoria in 1891, and the same conditions as to females existed as in the previous year, except that there was a larger proportion of yearling skins among them.

Larger proportion of yearling skins in catch of 1891.

I have also examined skins taken by hunters from the Bering Sea, and there is even a greater proportion of females than among those taken on the coast. It is easier to distinguish the females in the Bering Sea skins, for the teats are fully developed from the seals suckling their young and they are caught while in the sea searching for food. The fur on the belly of these female seals is very poor and thin, owing to the swelling and fever in the teats, caused by suckling. Oftentimes female skins are found with big bare spots round the teats, due to the same cause.

Larger proportion of females among Bering Sea catch than among those of coast.

Females feeding.

I have made it my business to find out what proportion of skins of seals killed are really brought into the market, and from the information which I obtained from the sealers, hunters, and those owning the skins, I learned that on an average only about one out of six killed was secured, varying with the expertness of the hunter.

Only one secured out of six killed.

In former times the seals were shot with rifles, and only had one small hole through which the bullet entered. Now shotguns are used, and the skins are frequently so perforated that they look more like a sieve than a skin, which reduces their commercial value over 50 per cent.

Perforated skins.

In the pursuit of my business I have had an opportunity to buy and examine fur-seals taken from the Commander Islands, and can readily distinguish them from the northwest coast catch and those taken from the Pribilof Islands. They are evidently a distinct and separate herd, as the foundation of the fur is much coarser, and at the same time does not cover the belly as thickly as on the Alaska seal and is of very much less value. The proof of this is that the Commander Island skins bring 30 per cent less in the market than the Alaska skins. From my knowledge and experience in the purchase and handling of fur-seal skins, I know that the skins taken from seals along the coast and those taken from the Pribilof Islands belong to the same herd. In buying the skins taken from seals caught by hunters in the Bering Sea, the price is usually made for the lot as it runs without any limitation

Commander Islands herd distinct from that of the northwest coast and Pribilof Islands.

Coast seals and those of Pribilof Islands belong to same herd.

Prices paid for skins.
Proportion of year-
lings.

Samples of dressed
and dyed skins.

as to yearlings, the yearlings not averaging more than 2 per cent, whereas the coast skins are always bought with a limitation as to yearlings, one price being made for the skins and the other for the yearlings. In these lots the yearlings usually average 10 per cent.

I herewith attach samples of dressed and dyed fur-seal skins of the Alaska seals, labeled as follows:

Exhibit No. 1, showing the teats on the belly of a virgin female.

Exhibit No. 2, showing the teats on a cow heavy with pup.

Exhibit No. 3, showing teats on a cow suckling pups.

Exhibit No. 4, showing teats on a bachelor seal.

Exhibit No. 5, showing the teats on a wig.

GEORGE LIEBES,

Subscribed and sworn to before me this 8th day of April, A. D. 1892.

[L. S.]

CLEMENT BENNETT,

Notary Public.

Deposition of Herman Liebes, furrier, San Francisco.

GENERAL SEALSKIN INDUSTRY AND PELAGIC SEALING.

City and County of New York, ss:

Herman Liebes, being duly sworn, says:

First. That he is 50 years of age and resides in the city of San Francisco, California. That he has been in the fur business since he was 13 years of age, and established in his own business in San Francisco in the year 1864. That he first began to buy sealskins in the year 1865. At that time he made his purchases from the Indians on the western coast of the American continent, who offered

Experience.

Purchased skins
from Northwest Coast
Indians in 1865.

Only female skins.

to him only the
for them was as

Unable to procure
male skins.

from whom he has

Reasons therefor.

young cows were too active to be caught and that it was only the female seals heavy with young which they could catch. The males, for instance, as deponent was told by the seal hunters, come up to the surface of the water after diving, often as much as a mile from the place they went down; whereas the females can when pregnant hardly dive at all.

Deponent says that from his own observation of live seals during many years, and from his personal inspection of the

Difference between
male and female skins.

skins, he knows the difference between the skin of a female seal and a male seal to be very marked, and that the two are easily distinguishable. The skin of the female seal shows the marks of the breast, about which there is no fur. The belly of the female seal is barren of fur also, whereas on the male the fur is thick and evenly distributed. The female seal has a much narrower head than the male seal, and this difference is apparent in the skins; also that the differences between the male and female skins are so marked

that there is now and always has been a difference in the price of the two of from 300 to 500 per cent. For example, at the last sales in London, on the 22d day of January, 1892, there were sold 30,000 female skins at a price of 40 shillings apiece, and 13,000 male seals at a price of 130 shillings apiece on an average.

Difference in prices of male and female skins.

Second. That from the year 1864 down to the present day deponent or his firm have been large purchasers of sealskins on the western coast of America from the Indians and residents on the British coast; and deponent believes that he has handled nearly three-fourths of the catch from that time down to the present. That during the whole of this period he has purchased from 3,000 to 40,000 seal skins a year, and that he has personally inspected and physically handled the most of the skins so bought by him or his firm.

Skins purchased by him since 1864.

That from the year 1880 he has been in the habit of buying skins from American and English vessels engaged in what is now known as poaching, and that he has personally inspected every cargo bought and seen unloaded from the poaching vessels, and subsequently seen and superintended the unpacking of the same in his own warehouse; that the most of the skins above mentioned as purchased by him have been bought from the poaching vessels, and that of the skins so bought from the vessels known as poachers, deponent says that at least 90 per cent of the total number of skins were those of female seals, and that the skins of male seals found among those cargoes were the skins of very small animals, not exceeding two years of age, and further, that the age of the seal may be told accurately from the size of its skin.

Ninety per cent of skins bought from poachers those of females.

Third. That the skins bought at Victoria from the poaching vessels are shipped by him largely to the firm of C. M. Lampson & Co., in London, who are the largest sellers of skins in the world and the agents of deponent's firm. That he has been through the establishment of C. H. Lampson & Co., in London, very frequently. That he has frequently heard stated by the superintendent thereof that the great majority of the skins received by them from what is called the "northwest catch," that is, the northwest coast of Victoria, are the skins of seals caught by vessels in the open Pacific or the Bering Sea, and that a large proportion of said skins, amounting to at least 90 per cent, were in his, the said superintendent's, judgment obviously the skins of female seals.

Skins bought by him from poachers are consigned largely to C. M. Lampson & Co., London.

Proportions of northwest skins and those of females in establishment of C. M. Lampson & Co.

Fourth. That deponent has frequently requested the captains of the poaching vessels sailing from the port of Victoria and other ports to obtain the skins of male seals, and stated that he would give twice as much money, or even more, for such skins than he would pay for the skins of female seals. Each and all of the captains so approached laughed at the idea of catching male seals in the open sea, and said that it was impossible for them to do it, and that they could not catch male seals unless they could get upon the islands, which, except once in a long while, they were unable to do in consequence of the restrictions imposed by the United States Government; because they said the males were more active and could outswim any boat which their several vessels had, and that it was only the female seals who were heavy with young which could be caught. Among the captains of vessels with whom deponent has talked, and who have

Inducements to poachers to procure male skins.

Failure thereof.

stated to him that they were unable to catch anything but female seals, are the following:

Captain Cathcart, an American, now about 75 years of age, who commanded the schooner *San Diego*, and who subsequently commanded other vessels; Capt. Harry Harmson, Capt. George W. Littlejohn, Capt. A. Carlson, Gustav Sundvall, and others, whose names he does not now remember.

Fifth. That by reason of his long acquaintance with the business and his conversations with the captains of the vessels, called poachers, and the hunters employed on those vessels—that is, the persons who actually shoot the seals—deponent is satisfied that a large number of the seals which are shot are not caught, but are lost, and that the number so killed and lost is at least 25 to 30 per cent.

Deponent further says that by reason of his knowledge of the business he knows that the number of seals has greatly diminished within the last five years, and is of the opinion that open-sea seal-fishing should be absolutely prohibited, and that if the same is not done the seals will within two, or at the utmost three, years be exterminated. This opinion is based upon the assumption that the present restriction imposed by the United States and Russia on the number, age, and sex of the seals killed upon the islands owned by them respectively are to be maintained.

Deponent is further of the opinion that it would be necessary, in order to fully protect the herds, to prohibit, at least for a time, the killing of all female seals anywhere. That one reason for deponent's opinion that the total number of seals in the Pacific and Bering Sea has diminished very rapidly is the fact—which deponent knows from the fact that he buys so large a portion of the poachers' catch—that there are now engaged on what is called "poaching" about eighty vessels, and that about five years ago not more than ten vessels were engaged in poaching; and that the total number of skins brought in by the whole eighty vessels is now not very much greater than the number brought in five years ago by ten vessels. The poaching vessels a few years ago have been known to get as many as 3,000 or 4,000 skins, and deponent has bought 4,000 skins from one vessel, whereas no poaching vessel now gets more than a few hundred with the same size crew. One vessel last year sailing from Victoria made a catch of 1,900 skins, but this is now an altogether exceptional catch, and this vessel had a crew twice as large as poaching vessels formerly carried, and was equipped with from twelve to fifteen boats instead of five or six. One or two other poaching vessels also made large catches—that is, over 1,200 skins—but the average catch of the poaching vessels is not more than a few hundred each. This is true, although the poaching vessels are now equipped with much more experienced shooters, with better rifles, and with better boats than any of the vessels had five years ago. Many of the poaching vessels now have boats pointed at both ends, so that they can go backward or forward with equal ease; and the old poacher only had ordinary ships' boats. Deponent knows this to be true, because he has seen the boats and talked with the captains of the schooners about them.

HERMAN LIEBES.

Sworn to before me this 4th day of April, 1892.

[L. S.]

EDWIN T. RICE, JR.,

Notary Public, New York County.

Deposition of Isaac Liebes, furrier, San Francisco.

GENERAL SEALSKIN INDUSTRY.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Isaac Liebes, being duly sworn, deposes and says: I reside at San Francisco, in the State of California. I am by occupation a fur merchant, and I have been so engaged permanently for the last twenty-three years, during which time I have been constantly handling large quantities of raw fur-seal skins; in fact more so than any other individual in the United States or Canada. I claim to be thoroughly conversant with all kinds of seal skins, and from all the different locations, and can readily distinguish one from the other. I am also thoroughly familiar with their mode of capture, handling, packing, etc.; also when the skin is dressed, dyed, and manufactured.

Experience.

Some eighteen years ago several thousand seals were taken on the Guadelupe Islands off the coast of Mexico, but their hunting being unrestricted, they were practically exterminated inside of three years. So much so that a vessel visiting these islands some four months ago was only able to secure 3 fur seals, and the captain states that he does not think that even these would have been obtained had it not been for the large number of caves on that particular island, which probably gave shelter to a few of the animals while the extermination was being practiced.

Guadelupe Island seals practically exterminated.

The fur-seal belonging to this island does not migrate, the climate being sufficiently uniform all the year round to make it unnecessary for them to do so. Their fur is of a different nature from the northwest skins, being much shorter and of a darker color.

Guadelupe seal does not migrate.

The Gallapagos Island rookery was much larger than the Guadelupe, and the animals have also become nearly extinct there by reason of unrestricted hunting.

Gallapagos seals nearly extinct.

Several vessels have visited the rookeries in the vicinity of Cape Horn and the Straits of Magellan, and the last vessel returned from the latter place only last week with a catch of twenty-six skins, representing a seven months' cruise.

Cape Horn and Straits of Magellan rookeries nearly depopulated.

Heretofore some expeditions went from this port to the Shetland Islands, but their catches were so small that in the last few years no hunting has been done in that vicinity, it being understood that the animal is extinct there.

South Shetland Islands seal extinct.

ISAAC LIEBES.

Subscribed and sworn to before me this 3d day of May, A. D. 1892.

[L. S.]

CLEMENT BENNETT,
Notary Public.

Deposition of Sidney Liebes, furrier, San Francisco.

GENERAL SEALSKIN INDUSTRY.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Sidney Liebes, having been duly sworn, deposes and says: My age is 22. I reside in San Francisco, and am by occupation a furrier, having been engaged in that business for the last six years. I have made it my business to examine raw seal skins brought to this city for sale, and am familiar with the different kinds of seal skins in the market. I can tell from an examination of a skin whether it has been caught on the Russian or American side. I have found that the Russian skins were flat and smaller, and somewhat different in color in the under wool than those caught on the American side. In my opinion they are of an inferior quality. The Alaska skins are larger and the hair is much finer. The color of the under wool is also different. I have no difficulty in distinguishing one skin from the other. I am of the opinion that they belong to an entirely separate and distinct herd. In my examination of skins offered for sale by sealing schooners, I found that over 90 per cent were skins taken from females. The sides of the female skin are swollen, and are wider on the belly than those of males. The teats are very discernible on the females, and it can be plainly seen where the young have been suckling. The head of the females is also much narrower.

SIDNEY LIEBES.

Subscribed and sworn to before me this 8th day of April, A. D. 1892.

[L. S.]

CLEMENT BENNETT,

Notary Public.

Deposition of John N. Lofstad, furrier, San Francisco.

GENERAL SEALSKIN INDUSTRY.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

John N. Lofstad, having been duly sworn, deposes and says: I am 48 years of age. I reside in San Francisco. I am by occupation a dealer in furs and fur goods. I have been in the business for 28 years, during which time I have bought large numbers of dressed and undressed fur skins, and I am thoroughly familiar with the business. I can easily distinguish the Copper Island fur-seal skin in its undressed state from that of the Alaskan and Northwest coast skins. They are of an entirely distinct and separate herd, while those of the Northwest coast and Pribilof Island are of the same variety. I have bought and examined the catch of a great many sealing schooners during the last ten years, and have observed that 85 to 90 per cent of skins taken were from female seals, which I could distinguish by a glance, from the shape of the skins, texture of the fur, and develop-

ment of the teats. My observation is that the skins taken from seals killed on the islands are a better quality than those of the same herd taken off the coast of California. This is owing to their being taken at that season of the year when the fur is in its prime, and also taken from the best grade of seals. Those that are caught off the coast are killed indiscriminately, and are largely females. Many of them having borne young for years, their fur is inferior to those of young bachelors.

Pribilof Island skins of better quality than those of coast.

Indiscriminate killing.

JOHN N. LOFSTAD.

Subscribed and sworn to before me this 8th day of April, A. D. 1892.
[L. S.]

CLEMENT BENNETT,
Notary Public.

Deposition of Charles E. McCledden, director of the George C. Treadwell Company, furriers.

GENERAL SEALSKIN INDUSTRY.

STATE OF NEW YORK,
City and County of New York, ss:

Charles E. McCledden, being duly sworn, says: I am 36 years of age, a citizen of the United States, and a resident of Albany, in the State of New York. I am a director in the George C. Treadwell Company, the corporation referred to in the affidavit of George H. Treadwell, verified this day. I have been in the fur business for about eight years, and during that time I have handled many fur-seal skins in all their conditions. I have read the affidavit of John J. Phelan, verified the 18th day of June, 1892. I was present at the examination of seal skins therein referred to. While Phelan inspected all of these seal skins I assisted him in the inspection of about three-fourths of them. I know that of those we inspected jointly none were improperly classed as the skins of female animals.

Experience.

Verifies affidavit of John J. Phelan as to inspection of skins.

CHAS. E. MCCLEDDEN.

Sworn to before me this 20th day of June, 1892.

[SEAL.]

E. R. MCCARTY,
Notary Public (No. 57) in and for the City and County of New York.

Deposition of Dr. H. H. McIntyre, superintendent of Alaska Commercial Company on the Pribilof Islands.

COST OF PLACING SEALSKINS ON THE MARKET.

STATE OF VERMONT, *Orange County, ss:*

H. H. McIntyre, of Randolph, in said county, having been duly sworn, deposes and says: I am a native of Vermont, 48 years old. In the years 1868 and 1869 I was special United States Treasury agent assigned to duty in Alaska under particular instructions to visit and report upon the seal fisheries of Alaska, and from 1870 to 1889, inclusive, I was superintendent of the sealeries for the lessees of the Pribilof Islands. In these capacities I

Experience.

first visited the seal islands in the summer of 1869, and every year thereafter until and including 1889, except the years 1883, 1884, and 1885. In 1871 and 1872 I staid there continuously for about sixteen months, and in each of the other years from two to four months through the sealing season. I also visited London twice during my superintendency in connection with the sealing industry, and was at all times actively at work in the interests of my employers. My duties as such superintendent demanded that I should be thoroughly conversant with all the details of shipping and transporting seal skins taken, and the necessary expenses incurred by my employers. From my knowledge of such expenditures I herewith submit the following statement in relation to the cost of putting the annual quota of skins obtained on the Pribilof Islands upon the market when a hundred thousand seals are killed, and I believe such statement to be practically correct:

Maintenance of island establishments.....	\$12, 000
Salaries of employes (exclusive of natives).....	12, 000
Transportation to San Francisco.....	15, 000
Transportation, San Francisco to New York.....	20, 000
Transportation, New York to London.....	6, 000
Insurance, \$1,400,000 at 1 per cent.....	14, 000
Commission for selling, 2½ per cent of \$1, 500, 000.....	37, 500
Storage, cooperage, twine, salt, etc.....	15, 500
Interest on the plant, 10 per cent of \$100,000.....	10, 000
Annual rental paid to Government, per terms of lease.....	60, 000
Obligations of the lease for fish, fuel, medicines, etc.....	25, 000
Supervision of business from San Francisco.....	20, 000
First cost of skins to natives.....	40, 000
Cost of 100,000 skins delivered in London, sold.....	287, 000

H. H. McINTYRE.

Sworn and subscribed at Randolph, this first day of August, A. D. 1892. Before me,
[SEAL.]

W. H. DU BOIS,
Notary Public.

Deposition of John J. Phelan, furrier.

PELAGIC SEALING.

STATE OF NEW YORK,

City and County of New York, ss :

John J. Phelan, being duly sworn, says: I am 35 years of age, a citizen of the United States and a resident of Albany, in the State of New York. At the age of 11 I entered the service of Mr. George C. Treadwell, a wholesale furrier of Albany.

Experience.

I remained with him until the time of his death, and have since been in the employ of his son, Mr. George H. Treadwell, who has succeeded to the business carried on by his father. It has always been a part of my occupation, beginning with the age of 11, to handle fur-seal skins, and during the last twenty years I have handled nearly every seal skin that came into the factory. I have for many years been in the habit of putting them through every process connected with their preparation for manufacture, except that of dyeing, with which I am not familiar. I have removed the flesh and blubber; I have washed the skins; removed the hair, or "picked" them, shaved them, and dressed them; and in this way I have constantly gone over and closely observed every part of their surfaces in all the stages or processes through which they pass before they go to the dyer.

As a result of the work I have performed for so many years I am able to distinguish, without difficulty, the skin of a female seal from that of a male seal. There are generally several ways in which I can tell them apart. One of the surest ways consists in seeing whether any teats can be found. On a female skin above the age of 2 years teats can practically always be discovered; when the animal is over 3 years old, even a person who is not an expert at handling skins can discover two prominent ones on each side of almost every skin. This is because after the age of 3, and often even after 2, almost all females have been in pup. Females 2 years old have pups. There are also teats on a male skin, but they are only very slightly developed. When the fur is matted, as it is in salted fur-seal skins, the male teats can not be found, but the female teats of skins more than 2 years old can be found under all circumstances.

I have been able to test all my observations as to the teats on salted fur-seal skins by following these skins through the various processes which I have described. During these processes the skins become thinner and thinner, and the teats more and more noticeable, and at an early stage in the dressing they must be wholly removed. There are other ways of distinguishing the skins of the two sexes. I will state a few of them.

A female seal has a narrower head than a male seal. By the word "head" I mean here to include the part of the body from the head down to the middle of the back. Female has narrower head than male. I believe all men who have handled the skins of both sexes have noticed this point.

Then, again, when the whiskers have not been cut off, they generally afford a safe means of distinguishing the sexes. Male whiskers are much more brittle and of a darker color than those of the female animal. When the male seal is over 6 years old it begins to have a mane, and for this reason it is after that age called a wig.

Finally, it is generally possible for me to tell the skins of the two sexes apart by just taking a look at them or feeling them. I suppose I can do this because I have been at the business so long that I am an expert in it.

The chief classes of seal skins which I have handled are the Alaska, the Northwest coast, and the Copper Island skins. I can always distinguish the skins of these classes. Northwest coast catch mostly females. No females among the other catches. The Northwest coast skins are most easily told by the very great proportion of females contained in any given lot. Among the Alaska and Copper skins I have hardly ever seen a female skin.

While the Alaska and Northwest coast skins are taken from the same species or herd of seals, I am convinced that the Copper skins are taken from seals of a different herd. Different species of seals. I have noticed the difference in the skins, both in their raw state and during the processes of dressing. The hair of the Copper skin is shorter, thinner, and generally of a somewhat darker color than that of the Alaska or Northwest coast skins, and in most cases the difference in shape is sufficiently marked to enable me to distinguish them by that means alone.

The difference between the Copper and the other skins is still more marked during the processes of dressing. It is very much more difficult to unhair a Copper skin. Distinctive marks. Furthermore, the pelts of the Copper skins are less porous than those of the

other skins. While preparing skins for dressing it is necessary to "work" them and open the pores in order to "leather" them, and it is during this process that I have noticed the fact that Copper skins are much less porous than the others. The pelt being harder and stiffer and the hair more brittle we can hardly ever unhair a Copper skin as satisfactorily as we can the other skins.

I was sent to New York from Albany a few days ago by Mr. George H. Treadwell, with instructions to go through a certain lot of seal skins, which I understand he had recently bought in Victoria, and to find out how many of these skins were taken from female animals. I have spent four days in doing this, working about seven hours a day.

There were several men who unpacked the skins and laid them before me, so that all of my time was spent in examining the individual skins. The lot contained 3,550 skins. I found that, with the possible exception of two dried ones, they were taken from animals this year; they were a part of what is known as the spring catch. I know this to be the case by the fresh appearance of the blubber and of the skin as a whole. This affords a sure way of telling whether the skin has lain in salt all winter or whether it has been recently salted. I personally inspected each one of these skins by itself and kept an accurate record of the result. I divided the skins according to the three following classes: Males, females, and pups. In the class of pups I placed only the skins of animals less than two years of age, but without reference to sex.

I found in the lot 395 males, 2,167 females, and 988 pups. Leaving out of account the pups, the percentage of females was therefore about 82.

The great majority of what I classed as male skins were taken from animals less than 3 years of age. There was not a single wig in the lot. On the other hand, nearly all of the female skins were those of full-grown animals. On every skin which I classed among the females I found teats, with bare spots about them on the fur side. Such bare spots make it absolutely certain that these teats were those of female skins.

With regard to the pup skins, I will say that I did not undertake to determine whether they were males or females, because they had a thick coat of blubber, which, in the case of an animal less than 2 years old, makes it very hard to tell the sex.

All of the skins that I examined were either shot or speared. I did not keep a close count, but I am of the opinion that about 75 per cent of them were shot.

The result of the examination is about what I had expected it would be. The figures only confirm what I have always noticed in a general way, that nearly nine-tenths of the skins in any shipment of Northwest coast skins are those of female animals.

JOHN J. PHELAN.

Sworn to before me this 18th day of June, 1892.

[SEAL.]

WILLIS VAN VALKENBURG,
Notary Public, Kings Co.,
(Cert. filed in N. Y. Co.)

Deposition of Charles W. Price, furrier.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Charles W. Price, having been duly sworn, deposes and says: I am 34 years of age and reside in San Francisco. My occupation is that of a fur dresser and examiner of raw fur skins. I have been engaged in the dressing and examining of fur skins about twenty years, and I am an expert in that business. I have examined and handled large numbers of fur-seal skins, both of the American and Russian side, and can easily distinguish one from the other from the appearance of the skins. The skins of the Russian side are much coarser than those of the American side, and the fur is a little darker; more of a cherry color. The top hair is darker. The seals on the Russian side are a distinct and different herd from those on the American side and are not as valuable. The skins taken in the North Pacific and Bering Sea by hunters are of the same nature as those taken on the Pribilof Islands but are of less value, owing to the fact that they are taken at all seasons of the year. Part of them are stogy, some are full of holes from being shot, and the fur on the belly of quite a number of the female seals giving milk is of little value. I have handled and examined many thousands of skins purchased from hunters who had taken them along the coast and in Bering Sea. Fully 80 per cent of them were females, which skins were readily distinguishable.

Experience.

Classes of skins.

Pelagic sealing.
Skins less valuable.Eighty per cent females.
Dead pups.

I visited the Pribilof Islands in 1890 and made a careful study of the conditions of seal life on those islands. I discovered late in the season a large number of dead pups lying upon the rookeries, which had the appearance of having been starved to death.

CHARLES W. PRICE.

Subscribed and sworn to before me this 8th day of April, A. D. 1892.

[L. S.]

CLEMENT BENNETT,

*Notary Public.**Deposition of S. W. Saalburg, bookkeeper for H. Liebes & Co., furriers.*

GENERAL SEALSKIN INDUSTRY.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

S. W. Saalburg, being duly sworn, deposes and says: The following statistics relative to the number of salted Northwest Coast seal skins purchased by the firm of H. Liebes & Co., of San Francisco, Cal., and prices paid therefor, have been gathered by me from the books and records of said firm, covering a period from the year 1883 to 1892, inclusive. I held the position of chief bookkeeper and cashier for H. Liebes & Co. during said period of time, and know of my own personal knowledge that the number of skins set forth below were duly purchased by said firm at the average prices stated, and that payment therefor is regularly entered on the firm's cashbooks of the respective years.

Northwest Coast
seals.Prices and number
of sealskins handled,
1883-'92.

Statistics of prices.

Year.	Number of skins.	Amount paid.	Average price.	Year.	Number of skins.	Amount paid.	Average price.
1883.....	99	\$430.00	\$4.34	1889.....	24,486	\$176,221.00	\$7.20
1884.....	11,108	62,031.00	5.58	1890.....	30,011	302,417.60	*10.08
1885.....	9,854	74,184.75	7.53	1891.....	11,174	164,637.00	*14.74
1886.....	7,563	37,729.25	4.99	1892.....	1,322	14,506.00	*10.97
1887.....	17,956	99,549.50	5.54				
1888.....	13,459	74,956.00	5.57		127,032	1,006,661.50	.....

*Recent increase in price.

S. W. SAALBURG.

Subscribed and sworn to before me this 24th day of June, 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.*Deposition of B. H. Sternfels, furrier.*

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

B. H. Sternfels, having been duly sworn, deposes and says: I am 50 years of age and reside in San Francisco. My occupation

Experience.

is that of a fur merchant. I have been engaged in handling and purchasing fur for twenty-six years, and I am thoroughly familiar with the fur seal skins in their raw and dressed condition. There are known to the trade in purchasing raw

Classes of seal skins.

fur skins from the North Pacific and Bering Sea three different varieties—the Copper Island skins, the West Coast skins, which are those shot and caught by hunters in the water, and, third, those taken from the Pribilof Islands. The most valuable

West Coast catch less valuable.

are those taken from Pribilof Islands, and the next are the Copper Island skins, and those of least value are what is known as the West Coast catch. The latter, while of the same nature and from the same herd as those on the Pribilof Islands, are of less value because many of them are caught

Skins full of shot holes.

out of season. The skins are stogy and are full of holes from being shot. A number of them are cows in milk, and the fur on the belly is very much less valuable on that account. In buying the catch of schooners engaged in the

Mostly pregnant females taken.

sealing business, I have observed that fully 75 per cent of them were females and had either given birth to their young or were heavy in pup when killed, which was easily observed by the width of the skin of the belly and the small head and development of the teat.

B. H. STERNFELS.

Subscribed and sworn to before me this 8th day of April, A. D. 1892.

[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of George H. Treadwell, president of the George C. Treadwell Company, furriers.

GENERAL SEALSKIN INDUSTRY—PELAGIC SEALING.

STATE OF NEW YORK,
City and County of Albany, ss:

George H. Treadwell, being duly sworn, says: I am 55 years of age, a citizen of the United States, and a resident of Albany County in the State of New York. I am the son of George C. Treadwell, of Albany, who, in the year 1832 there started a wholesale fur business of a general character. I became associated with him in it in the year 1858, and upon his death in the year 1885 succeeded to the business. It has been carried on under the names of George C. Treadwell & Co. and Treadwell & Co. In the early part of this year it was turned into The George C. Treadwell Company, a corporation formed under the laws of the State of New Jersey, of which corporation I am the president.

Experience.

My father dressed and dyed a few seal-skins in 1832, and each year thereafter, and in 1864 this became a lucrative item of our business. Since 1870 the house has bought annually from 5,000 to 6,000 salted fur-seal skins in London, all of which it has dressed and dyed in Albany.

Seal skins bought in London.

In this industry we have constantly employed during the last ten years about forty men and women, who receive average wages of \$1.25 to \$2 a day. Our "pickers" get an average of \$1.25 for each skin, and they handle about three a day. My pay roll averages about \$500 a week.

Employment given to labor.

I understand that my concern and that of J. D. Williams, of Brooklyn, have heretofore been the only regular and recognized dressers and dyers in the United States. Until last year our house dressed and dyed skins only for its own use.

In addition to dressing and dyeing, our house annually manufactures a large number of fur-seal-skin articles. I am deeply interested in the protection of the fur-seals. While the Northwest Coast catches have of late years placed upon the market comparatively cheap skins, and in that way perhaps benefited my particular business, yet I recognize the fact that such benefit can only be of temporary duration, for I have always noticed that these catches are largely composed of female skins, and I know that to kill female animals seriously impairs the herd. Besides, skins are being now put on the market at such irregular times and in such uneven quantities that buying them has become a speculative business.

Northwest Coast catch mostly females.

Irregular prices.

I believe that the whole trouble has been brought about by the Victoria and other pelagic sealers, who furnish the present cheap skins. Both in order to maintain the herd, and to restore the seal-skin industry to a sure footing, I should like to see all taking of seals in the water prohibited.

Pelagic sealing injurious to business.

In March of this year, I made a contract with parties on the Pacific coast for their supply of northwest coast skins (*i. e.*, skins taken in the Pacific Ocean) caught during the present year, and about a month ago I received the first consignment under this contract. It was composed of the skins of the spring catch. Later on I expect to receive two further shipments.

The first consignment was placed in cold storage at the Central Stores in New York City.

A short time since I consented, at the request of the United States Government that this consignment be examined, in order to determine how many female skins it contained. To perform the examination I detailed John J. Phelan. This man has been in the employ of my father or of myself since the year 1868. I regard him as one of the most competent and trust worthy men in our service. I have read an affidavit verified by him on the 18th of June. I agree entirely with what he says concerning his experience in the handling and dressing of skins, and from what I know of his character and ability I believe that everything stated by him in this affidavit is correct.

GEO. H. TREADWELL.

Sworn to before me this 27th day of June, 1892.

[SEAL.]

GEO. N. CUYLER,
Notary Public, Albany County, N. Y.

STATE OF NEW YORK,

City and County of Albany, Clerk's Office:

I, Ansel C. Requa, clerk of the said city and county and also clerk of the supreme and county courts, being courts of record held therein, do hereby certify that Geo. N. Cuyler, whose name is subscribed to the jurat of the annexed affidavit, was, on the day of the date thereof a notary public in and for the county of Albany, dwelling in said county, duly authorized to administer oaths for general purposes; and that I am well acquainted with the handwriting of the said notary public, and verily believe that the signature to the said jurat is genuine.

In testimony whereof, I have hereunto set my hand, and affixed my official seal this 27th day of June, 1892.

[SEAL.]

A. C. REQUA, *Clerk.*

Deposition of Henry Treadwell, member of the firm of Treadwell & Co., furriers.

GENERAL SEALSKIN INDUSTRY—PELAGIC SEALING.

CITY AND COUNTY OF NEW YORK, ss:

Henry Treadwell, being duly sworn, says that he is a citizen of the United States; is 70 years of age, and resides in the city of Brooklyn, in the State of New York.

First. That he is a member of the firm of Treadwell and Company, which has been engaged in the business of buying, dressing, and dealing in furs since about the year 1832. That for the twenty years last past deponent's said firm have bought on their own account, dressed and dyed, annually from 5,000 to 8,000 seal skins.

Second. That nearly all of the skins purchased by deponent's said firm are bought of C. M. Lampson and Company, of London, who are the largest dealers in seal skins in the world. That the majority of the skins bought by said firm are a part of the skins known as the "Alaska" catch, that is, as deponent is informed and believes the skins of seals

Corroborates affidavit of J. J. Phelan.
Experience.
Seal skins bought in London.
Classes of seal skins.

killed on the Pribilof Islands by the companies having leases from the United States for that purpose. A certain number of skins bought by deponent's firm are those killed upon the Russian, called the Commander Islands, known as the Copper catch, and about 30 per cent of the whole number of seal skins ^{Northwest Coast catch.} bought by deponent's firm are what are called the Northwest Coast skins; the skins of animals killed and caught in the open sea.

Third. That the skins of each of the several catches are readily distinguishable from each other by any person at all experienced in the handling of seal skins; and the skins of the Northwest, Alaska, or Copper catch, are none of them found except under those titles, that is to say, that skins of the "Copper" catch are not found among the "Alaska" seal skins, nor those of the Northwest catch among the Alaska or Copper seal skins. The skins of the three ^{Sealskins readily distinguishable.} catches are so readily distinguishable from each other that deponent says he would be able, on the examination of the skins as they are taken from the barrels in which they are packed in salt and received by him, to detect at once in a barrel of Alaska skins, the skins of either the Copper or the Northwest catch; or in a barrel of the Northwest catch the skins of either the Alaska or the Copper catch, or in a barrel of the Copper catch the skins of either the Alaska or Northwest catch. The skins of the Alaska and Copper catches are readily distinguishable from each other, although male skins; and the skins of the Northwest catch are also readily distinguishable from both the Copper and Alaska by the fact that they are almost ^{Northwest catch mostly females.} all females, and all have marks of bullets, buckshot, or spears, showing that they have been killed at sea, although the Northwest catch belong to the Pribilof Island herd.

Fourth. That the skins of the Northwest catch are, deponent would say, at least nine-tenths of them, skins of female seals. The skins of the female seals are as readily distinguishable, before being dressed and dyed, from the skins ^{Ninety per cent females.} of male seals as the skin of a bitch and the skin of a dog, or the skin of any other female animal from that of the male of the same family. The females always have narrower heads than the males, and the breasts afford another ready means of identification of female seals.

Fifth. It is equally true that the skins of all the other catches which we had in prior years were readily distinguishable from each other. I have not seen the seals in their native rookeries, and can not speak as to the distinguishing traits of the live animal, but in the trade and in the experience of our firm we have always been able to distinguish readily the skins coming from one locality from the skins coming from another.

I remember upon one occasion my firm received a consignment of skins from London which bore no marks familiar to us and which skins had not been described to us, and that my brother, who was then at the head of the business, and who is now dead, said, after inspecting the said skins, that they reminded him very much of what were formerly called "south latitude skins," and particularly of some skins which he had had twenty odd years before from Santa Barbara, in California; and upon inquiry from the Messrs. Lampson and Company, we were informed by them that the said skins were the skins of seals killed at Santa Barbara.

HENRY TREADWELL.

Subscribed and sworn to before me this first day of April, 1892.

[SEAL.]

WILLARD PARKER BUTLER,
Notary Public, City and County of New York.

Affidavits of Joseph Ullman et al., furriers.

VALUE OF THE INDUSTRY OF THE MANUFACTURE OF FUR-SEAL ARTICLES IN THE UNITED STATES.

The number of Alaska fur-seal skins which are imported annually into the United States, after dressing and dyeing in London, is, upon the basis of the importations during the past ten years and upon a catch of 100,000 skins at the Pribilof Islands, correctly estimated at 65,000 to 75,000.

Number of skins imported.

The value, before paying duty thereon to the United States, of each dressed and dyed fur-seal skin so imported, may be said to range between \$15 and \$50, with an average value during the past ten years of about \$25 a skin.

Value of each skin.

The wages paid annually to people engaged in the manufacture and remodeling of seal-skin articles are, on an average, about \$7 a skin, or upon 70,000 skins, \$490,000.

Wages paid.

The profits made annually by merchants, wholesale furriers, and retail furriers amount to about \$30 a skin, or upon 70,000 skins, \$2,100,000.

Profits of merchants and furriers.

Silk consumed in making and repair of seal-skin articles.

The amount of silk consumed annually in the manufacture in the United States of 70,000 fur-seal skins into articles and in the repairing of these articles, may be estimated at \$150,000 to \$200,000. All silk which is being so consumed at the present time is made in the United States.

Working men and women employed and wages paid.

Working men and women are employed in the industry of manufacturing seal-skin articles in the United States as follows:

	Number.	Wages per diem.
a. Fur cutters (<i>i. e.</i> , people who trim, repair, and prepare the general shape of skins).....	1,200	\$3.50 to \$4.50
b. Nailers (<i>i. e.</i> , people who stretch and nail skins into shape on boards).....	600	2.00 to 2.50
c. Sewers and finishers (<i>i. e.</i> , people who put the article into final shape).....	1,500	1.50 to 2.00
d. Those who machine skins (<i>i. e.</i> , remove the portion of guard hairs left by the "unhairers").....	60	2.00
Total.....	3,360	

The fur cutters represent skilled labor of a high order. They handle about eight skins a day.

Porters, clerks, salesmen, etc.

No account is taken of porters, clerks, salesmen, etc., employed in the large establishments.

Dated at the city of New York, June 21st, 1892.

JOS. ULLMANN.
 MARTIN BATES, JR., & Co.
 HARRIS & RUSSAK,
 By ALFRED HARRIS.
 HENRY TREADWELL.
 ESTATE OF JOHN RUSZITS,
 By E. J. STAKE.
 ASCH & JAEKAL.
 C. G. GUNTHER'S SONS.

The foregoing statement is the one referred to in the annexed affidavits of Henry Treadwell, E. R. McCarty, No. 52, notary public; Hugo Jaekel, Frederick C. Schmidt, notary public; Franklin L. Gunther, Dan'l L. Tower, notary public; Joseph [Samuel] Ullmann, Alfred Harris, C. Francis Bates, George Kissinger, jr., notary public; E. J. Stake, S. Steinheimer, notary public, New York.

Deposition of Samuel Ullmann, member of the firm of Joseph Ullmann, furrier.

GENERAL SEALSKIN INDUSTRY.

STATE OF NEW YORK,

City and County of New York, ss:

Samuel Ullmann, being duly sworn, says: I am 34 years of age, a citizen of the United States, and a resident of the city of New York. The house of Joseph Ullmann, in which I am a partner, began business at St. Paul, in the State of Minnesota, in 1854. It has always been engaged in the wholesale fur business, and since the time when fur-seal skins first became an important article of commerce in this country it has dealt in large numbers of them. I have personally handled seal skins for the last twelve or thirteen years, and am familiar with the whole seal-skin trade of this country. The house of Joseph Ullmann now does business at St. Paul, Leipzig, London, and New York. The books of the New York house show the following purchases of dressed and dyed Alaska fur-seal skins in London between the years 1885 and 1891. All of these purchases were brought to this country: 1885, 11,818 out of a total Alaska catch of about 100,000; 1886, 12,646 out of a total Alaska catch of about 100,000; 1887, 25,344 out of a total Alaska catch of about 100,000; 1888, 17,900 out of a total Alaska catch of about 100,000; 1889, 14,160 out of a total Alaska catch of about 100,000; 1890, 3,569 out of a total Alaska catch of about 21,000; 1891, 3,240 out of a total Alaska catch of about 13,000.

I have signed the name of Joseph Ullmann to the annexed statement, which I have carefully considered, and to the best of my information and belief this statement is correct, except that I know nothing about the silk consumed. I regard the figures given therein as conservative.

I am of the opinion that the nations interested should arrive at some agreement by which the killing of seals in the water will be stopped. It is true that the Northwest Coast catches have of late years placed upon the market a certain number of good skins which could be purchased at prices far below those for which skins of the Alaska catch were sold. But I realize that this can not continue to be the case, for it is a matter of common knowledge amongst furriers that these Northwest Coast catches are composed mainly of the skins of female animals, and I understand that the killing of female seals is rapidly impairing the value of the herd. ing the last few years buying fur-seal skins has become a business of a very speculative character, because it is impossible now to calculate at what times and

Experience.

Dressed and dyed skins imported by firm from 1885 to 1891.

Corroborates preceding statement, except as to silk consumed.

Pelagic sealing should be stopped.

Northwest catch composed mainly of females.

Then, too, dur-

Speculative character of the business.

in what quantities they will be placed upon the market. It requires from three to six months to properly dress and dye skins, and if while this process is going on further sales take place (as has been the case at frequent intervals in the last two years), the tendency is to unsettle the market, advance or reduce the raw material, and thus directly affect both dealers and manufacturers.

Necessity for a steady market.

Decrease is caused by pelagic sealing.

This has happened of late years only. I ascribe the present unsatisfactory condition of the business to the injurious operations of the Victoria sealers, whom I furthermore hold directly responsible for the present diminished catch of Alaska seals upon the Pribilof Islands.

SAMUEL ULLMANN.

Sworn to before me this 21st day of June, 1892.

[L. S.]

GEORGE KISSINGER, JR.,
Notary Public (No. 99), City and County of New York.

Deposition of C. Francis Bates, member of the firm of Martin Bates, jr., & Co., furriers, New York.

GENERAL SEALSKIN INDUSTRY.

STATE OF NEW YORK,

City and County of New York, ss :

C. Francis Bates, being duly sworn, says: I am 67 years of age, a citizen of the United States, and a resident of the city of New York. Early in this century my father estab-

Experience.

lished a wholesale fur business in this city, and to this business I have succeeded. I have been engaged in it for the past fifty years. It is now carried on under the name of Martin Bates, jr., & Co. For many years we have been large purchasers of Alaska (or Pribilof Island) fur-seal skins, having bought in London and brought to this country between the years 1879 and 1891, 71,904 such skins. I am familiar with the value and extent of the

Number of skins imported by firm from 1879 to 1891.

industry of manufacturing articles of fur-seal skins in this country, my house having until very recently been largely interested in it. This industry is one of great value to the United States. The fur-seal skin is in many respects one of the most valuable furs that has ever been placed on the market. I have read the statement hereto annexed and signed the name of my firm thereto. I believe it to be in all respects correct. I have read the last paragraph in the affidavit of Samuel Ullmann hereto annexed and agree with what is said

therein.

Corroborates affidavit of Joseph Ullmann, et al., and agrees with last paragraph of Samuel Ullmann's.

C. FRANCIS BATES.

Sworn to before me this 22d day of June, 1892.

[L. S.]

GEORGE KISSINGER, JR.,
Notary Public (No. 99), City and County of New York.

Deposition of Alfred Harris, with firm of Harris & Russak, furriers, New York.

GENERAL SEALSKIN INDUSTRY.

STATE OF NEW YORK,

City and County of New York, ss :

Alfred Harris, being duly sworn, says: I am forty years of age, a citizen of the United States and a resident of the city of New York For twelve years prior to February 1, 1892, I was a member of the firm of Harris & Russak, which still does a large wholesale fur business in the city of New York. I am now associated with this firm in its business and have charge of its manufacturing department. I am authorized to sign the firm name to the annexed statement, and the reason why I sign it, instead of one of the partners, is that I have a much more intimate knowledge of all branches of the business than anyone else. We are manufacturers of furs of all kinds, and a large proportion of our business consists in the manufacture of seal-skin articles. Between the years 1880 and 1890 we handled per annum on an average 12,000 fur-seal skins of the three catches. Between 1885 and 1890 we handled from 35,000 to 40,000 Alaska skins which had been dressed and dyed in London. Of this number we purchased ourselves in London and brought to this country about nine-tenths. I have signed the name of Harris & Russak to the statement hereto annexed, which I have carefully read. I believe it to be in all respects correct. I have read the last paragraph or section in the annexed affidavit of Samuel Ullmann, and I agree with everything contained therein.

Experience.

States extent of the firm's business in seal skins between 1880 and 1890.

Corroborates affidavit of Jos. Ullman, *et al.*, and agrees with last paragraph of Samuel Ullmann's.

ALFRED HARRIS.

Sworn to before me this 21st day of June, 1892.

[L. S.]

GEORGE KISSINGER, JR.

Notary Public (No. 99), City and County of New York.

Deposition of Henry Treadwell, member of the firm of Treadwell & Co., furriers.

GENERAL SEALSKIN INDUSTRY.

STATE OF NEW YORK,

City and County of New York, ss :

Henry Treadwell, being duly sworn, says: I am a member of the firm of Treadwell & Co., and the person described in and who verified an affidavit of the 1st day of April, 1892, relating to the difference in the skins of the various fur-seal catches and other matters. I have been in the wholesale fur business for over forty years, and took an active part in it until two years ago, when I retired from business. I have signed my name to the annexed statement, which I have carefully read, and believe to be correct in every respect. I have also read the last paragraph or section of the annexed affidavit of Samuel Ullmann, and I agree with everything therein stated.

Experience.

Corroborates affidavit of Jos. Ullman *et al.*, and agrees with last paragraph of Samuel Ullmann's.

HENRY TREADWELL.

Sworn to before me this 21st day of June, 1892.

[L. S.]

E. R. McCARTY,

Notary Public (No. 52), in and for County of New York.

Deposition of Emil J. Stake, manager of estate of John Ruszits, furrier, New York.

GENERAL SEALSKIN INDUSTRY.

STATE OF NEW YORK,

City and County of New York, ss:

Emil J. Stake, being duly sworn, says: I am 28 years of age, a citizen of the United States, and a resident of the city of New York. In 1851 John Ruszits established in the city New York a large wholesale fur business, at the head of which he remained until his death in 1890. In 1859 he imported 41 seal skins from London; his annual importations gradually increased until in the year 1887 he imported 16,804

dressed and dyed seal skins of all catches. His books show the following purchases in London of dressed and dyed Alaska fur-seal skins, all of which were brought to this country: 1887, 9,000; 1888, 5,800; 1889, 6,800. These figures fairly represent his average purchases and importations between 1880 and 1889.

I entered the employ of John Ruszits at the age of 14. Since the age of 21 I have been familiar with every transaction connected with the business, and upon his death I succeeded to its sole management.

There are now employed in this house in the manufacture of fur articles about 140 men and women. If we were to lose the seal-skin industry, I do not know what would become of the business as a whole. It would be very seriously crippled. I have signed the name "Estate of John Ruszits," the name under which the business is now carried on, to the annexed statement. I believe it to be correct in all respects. With regard to the approximate number of people stated to be employed in the seal-skin industry in the United States I will say this, that probably in the fall and winter a greater number, while in summer fewer, are employed.

But I believe the number given to fairly represent the average number employed throughout the year. I agree with all that is said by Samuel Ullmann in the last paragraph or section of his affidavit verified June 21 and hereto annexed.

EMIL J. STAKE.

Sworn to before me this 22d day of June, 1892.

[L. S.]

S. STEINHEIMER,

Notary Public, New York County, No. 529 Broadway, New York.

Deposition of Hugo Jaeckel, head of firm of Asch & Jaeckel, furriers, New York.

GENERAL SEALSKIN INDUSTRY.

STATE OF NEW YORK,

City and County of New York, ss:

Hugo Jaeckel, being duly sworn, says: I am 44 years of age, a citizen of the United States and a resident of the city of New York. I am the present owner of the business which, since the year 1878, has been carried on in the city of New York under

the name of Asch & Jaeckel. I have been in the fur business since I was 16 years old, and am now engaged in the wholesale manufacture of furs. I do a large business in fur-seal skins, and between 1885 and 1890 annually bought and imported into this country from London from 6,000 to 8,000 dressed and dyed Alaska fur-seal skins, and a proportionate number of fur-seal skins of the other principal catches. I have signed the name of Asch & Jaeckel to the annexed statement, which I have carefully read. I believe it to be in all respects correct. I have also read the last paragraph in the annexed affidavit of Samuel Ullmann, and agree with everything therein contained. The same is true of an affidavit verified on the 21st day of June by William Wiepert, my present superintendent.

Furs imported by firm from 1885 to 1890.

Corroborates affidavit of Jos. Ullmann *et al.*, and agrees with statements in last paragraph of Samuel Ullmann's.

HUGO JAECKEL.

Sworn to before me this 22d day of June, 1892.

[L. S.]

FREDERICK C. SCHMIDT,
Notary Public, New York County.

Deposition of Franklin L. Gunther, member of the firm of C. G. Gunther's Sons, furriers, New York.

GENERAL SEALSKIN INDUSTRY.

STATE OF NEW YORK,

City and County of New York, ss:

Franklin L. Gunther, being duly sworn, says: I am 39 years of age, a citizen of the United States and a resident of the city of New York. For the past twenty-three years I have been with the firm of C. G. Gunther's Sons, and in 1876 I became a member of it. This firm has been in existence and done business in the city of New York under names very similar to its present name since the year 1820; it has always carried on a wholesale and retail fur business. It was one of the first firms to introduce seal-skin garments into the United States, and since 1857 it has constantly been engaged in placing them upon the market. It has been in the habit of buying annually in London from 2,000 to 6,000 Alaska fur-seal skins, and it has handled very many more. I have signed the name of the firm to the annexed statement, which I have carefully read, and believe to be in all respects correct.

Experience.

Skins imported by firm annually.

Corroborates statements of Jos. Ullmann *et al.*

FRANKLIN L. GUNTHER.

Sworn to before me this 22d day of June, 1892.

[L. S.]

DAN'L LA TOWER,
Notary Public for Kings County.
(Certificate on file in New York County.)

Deposition of C. G. Gunther's Sons, furriers, New York.

INDUSTRY—DECREASE OF ALASKAN HERD DUE TO DESTRUCTION OF FEMALES BY PELAGIC SEALERS.

Relative to matter of depletion of seal herds of the Pribilof Islands, this most deplorable fact is due in our opinion in great part, if not entirely, to the action of sealers in the indiscriminate killing of these animals while in transit to and from these islands for breeding purposes, the females being killed in much greater proportionate numbers, owing to their less aggressive nature and their being less able to escape. While on their way to these islands, the cow (female) seal is in a condition of pregnancy, the period of gestation ending shortly after their landing. If intercepted and killed while in this condition the loss is obvious. In our opinion unless stringent measures be adopted on the part of those having authority on waters adjacent to these islands and on all contiguous bodies, the fur-seal of Alaska will soon be exterminated and this valuable industry, alike of great importance to the people of Europe and America, will have received its deathblow.

Protection necessary.

C. G. GUNTHER'S SONS.

STATE OF NEW YORK,

City and County of New York, ss:

Franklin L. Gunther, being duly sworn, says that he is a member of the firm of C. G. Gunther's Sons, furriers, of 184 Fifth avenue, New York; that the foregoing statement expresses the opinions of the members of said firm, and that same is true to the best of his knowledge and belief.

FRANKLIN L. GUNTHER.

Sworn to before me this 24th day of June, 1892.

[SEAL.]

DAN'L LA TOWER,

Notary Public for Kings County.

(Certificate on file in New York County.)

Deposition of Samuel Ullmann, member of the firm of Joseph Ullmann, furriers, New York.

GENERAL SEALSKIN INDUSTRY.—PELAGIC SEALING.

STATE OF NEW YORK,

City and County of New York, ss:

Samuel Ullmann, being duly sworn, says: I am a member of the wholesale fur house which does business in the city of New York under the firm name of Joseph Ullmann, and am the person described in and who verified an affidavit on the 21st day of June, 1892, relating to the value of the seal-skin industry in the United States, and other matters I have signed the name of Joseph Ullmann to the statement hereto annexed, which has been prepared from a careful examination of the books of the house of said Joseph Ullmann in the city of New York, and I know said statement to be correct and true in every respect.

Northwest Coast
skins.

All of the seal skins therein referred to are of the class known as Northwest Coast skins. In this term I mean to comprise all skins taken in the Pacific Ocean or in the waters of Bering Sea. The skins in question were purchased at

Victoria, British Columbia, with the exception of 499, which were purchased in August, 1889, at San Francisco. Said books show the following assortment of portions of these skins, respectively, 1,835 and 1,076 in number, bought in May and June, 1888, together with the prices paid for each grade per skin:

May, 1888.

	885 Bering Sea seals.....	\$4.57
	I { 551 West Coast seals.....	5.00
	102 West Coast gray pups.....	1.25
	2 West Coast pups.....	2.50
	252 West Coast seals.....	5.00
II {	41 West Coast gray pups.....	1.00
	2 West Coast pups.....	2.50

June, 1888.

985 seal skins.....	4.80
18 seal skins.....	6.00
100 gray pups.....	1.25

The skins marked I. formed one lot and represented the catch of a single vessel. The same is true of the skins marked II. The percentage of gray pups contained in each of these lots, both of which were bought on assortment, is not an unusual one. I have for many years personally examined numerous shipments of Northwest Coast skins purchased at Victoria. I have had such experience in handling fur-seal skins as enables me, readily in most cases, but always upon careful examination, to distinguish a female skin from a male skin, and I know it to be a fact that a very large proportion of the skins in such shipments are those taken from female animals. It is also true that a large number of skins in many of these shipments are rendered almost valueless through the numerous bullet holes which they contain. The house of Joseph Ullmann has, of late years, been one of the largest single buyers of seal skins at Victoria, and my knowledge and experience enable me to state that the prices paid by this house, as contained in the annexed statement, represent fairly the value of such skins at Victoria in each of the past five years.

Northwest Coast
skins mostly females.

Bullet holes.

The rapid rise in the price paid for these skins in the years 1890 and 1891 can only be explained through the sudden decrease, which in the years 1890 and 1891, took place in the annual catch on the Pribilof Islands. As soon as it became known in the latter part of the summer of 1890 that only about 21,000 skins had been taken that year on the Pribilof Islands, the price of skins rose rapidly at Victoria; and reference to the annexed statement will show that while in June we had bought at less than \$7 a skin, in September of the same year we purchased at \$11 a skin, these September purchases having been made at my direction immediately after the receipt of the information concerning the reduced catch on the Pribilof Islands.

Recent rise in price.

Our Northwest Coast purchases of 1891 were made in open market. The still higher prices paid in that year were directly due to the so-called *modus vivendi* between the United States and Great Britain, whereby the Pribilof catch was reduced to 7,500 skins, and sealing in the waters of Bering Sea entirely prohibited.

SAMUEL ULLMANN.

Sworn to before me this 21st day of June, 1892.

[SEAL.]

GEORGE KISSINGER, Jr.,

Notary Public, City and County of New York, No. 99.

1887.				1889—Continued.			
Month	Number of seal skins purchased.	Total price.	Average price per skin.	Month.	Number of seal skins purchased.	Total price.	Average price per skin.
May	730	\$3,910.00	\$5.35	August	499	\$3,507.75	\$7.03
August	57	295.00	5.17	October	630	4,882.50	7.75
October	4,706	27,138.40	5.76				
1888.				1890.			
May	1,835	\$8,237.95	\$4.49	May	2,210	20,965.50	9.48
June	1,076	4,831.40	4.49	June	613	5,332.50	8.69
September	3,516	20,208.75	5.75	Do.	435	3,031.50	6.97
October	3,686	20,700.74	5.61	September	2,618	28,766.00	10.98
1889.				Do.	2,152	23,672.00	11.00
April	529	\$3,236.00	\$6.12	October	1,828	20,605.80	11.27
May	1,992	13,622.20	6.62	Do.	2,615	30,358.90	11.60
June	233	1,440.25	6.18	Do.	1,366	16,254.25	11.16
July	138	1,060.75	7.61	1891.			
Do.	678	4,860.95	7.17	May	1,487	22,232.00	14.95
Do.	24	150.80	6.28	Do.	26	312.00	12.00
August	1,137	7,159.00	6.29	July	105	1,715.00	16.33

JOS. ULLMANN.

Statement referred to in annexed affidavit of Samuel Ullmann.

GEORGE KISSINGER, Jr.,
Notary Public.

Deposition of Elkan Wassermann, furrier, San Francisco.

PELAGIC SEALING.

STATE OF CALIFORNIA,

City and County of San Francisco, ss:

Elkan Wassermann, having been duly sworn, deposes and says: I am 53 years of age. I reside in San Francisco. My occupation is that of a merchant. I have been engaged in buying furs for the last thirty years. I have examined and bought a great number of seal-fur skins during that time. Some were skins taken by hunters off the coast of California, and others from the coasts of British Columbia, Alaska, and Japan; and I have also bought skins from other dealers. Some were shot and some were speared. I have often conversed with the hunters relative to the percentage of the loss of seals to those taken, and some tell me they get 1 out of 5 or 6. From my knowledge of the sealing business I am satisfied that the seals will be entirely exterminated unless protected from the indiscriminate pursuit in the waters that has been going on for the last few years.

Experience.

Waste of life.
Protection necessary.

E. WASSERMANN.

Subscribed and sworn to before me this 12th day of April, A. D. 1892,
[SEAL.]

CLEMENT BENNETT,
Notary Public.

Deposition of William Wiepert, superintendent for Asch & Jaeckel, furriers, New York.

GENERAL SEALSKIN INDUSTRY.

STATE OF NEW YORK,

City and County of New York, ss:

William Wiepert, being duly sworn, says: I am 47 years of age, a citizen of the United States, and a resident of the city of Brooklyn, State of New York. I am, and have been for the last six years, the superintendent of the manufacturing department of the house of Asch & Jaeckel, which carries on a general wholesale fur business in the city of New York, and between the years of 1880 and 1886 I was the foreman of this establishment. Prior to 1880 I had already handled large numbers of fur-seal skins, and since the time when I entered the employ of Asch & Jaeckel I believe I have handled, assorted, and closely inspected at least 100,000 dressed and dyed fur-seal skins. During the past two years I have handled large numbers of northwest-coast skins (*i. e.*, skins of animals taken in the Pacific Ocean or in Bering Sea). I have assorted all of them, and in doing so have specially noticed the fact that a very large proportion were skins of female animals. To determine this fact in the case of dressed skins I see whether there are any teat holes. I never call a skin a female skin unless I can find two such holes on either side. These holes can be easily distinguished from bullet or buckshot holes, of which there are generally a great number in northwest-coast skins. In the case of a shot hole it is always evident that the surrounding fur has been abruptly cut off, while around the edge of a teat hole the fur gradually shortens as it reaches the edge and naturally ceases to grow at the edge.

Experience.

Palagic catch mostly females.

Injury from bullet holes.

Ninety per cent females.

I have just looked over an original case of ninety dressed and dyed northwest-coast fur-seal skins, which have been lately received from London, and were still under seals placed on them in London. I found that of these ninety skins nine only were those of male animals.

WILLIAM WIEPERT.

Sworn to before me this 22d day of June, 1892.

[SEAL.]

FREDERICK C. SCHMIDT,
Notary Public, New York County.

Deposition of C. A. Williams, head of the firm of C. A. Williams & Co. and member of the Alaska Commercial Company.

PELAGIC SEALING.

DISTRICT OF COLUMBIA,

City of Washington, ss:

C. A. Williams, being duly sworn, says that he is a citizen of the United States and a resident of the city of New London, in the State of Connecticut, and is 63 years of age.

General seal-skin industry. Habits.

First. That he was a member of the firm of Williams & Haven, whose business has of late been carried

Experience.

on by him under the firm name of C. A. Williams & Co.; that said firms have been and the latter still is engaged in the whaling and seal hunting business, and prior to the formation of said firm of Williams & Haven, upwards of forty years ago, the same business was carried on by deponent's father and grandfather, from the beginning of this century. That during the time said business has been in deponent's hands he has employed upwards of twenty-five vessels in the sealing business and has had as many as eight or ten vessels at one time engaged in that business. That deponent's vessels have taken

Former sources of supply.

seals during the last forty years from the North Pacific, Cape of Good Hope, Cape Horn, South Shetland Islands, South Georgia, Crozetts, Desolation Islands, Sandwich Land, and Gough Island. That immediately after the cession of Russian America to the United States, deponent dispatched the American bark *Peru* to the Bering Sea from Honolulu (where deponent at that time had for some years been residing), for the purpose of investigating the possibilities of seal fishing in that locality. That about the year 1870

Formation of Alaska Commercial Company.

deponent was associated with several other gentlemen in forming the Alaska Commercial Company, which company obtained, in the year 1870, a lease from the United States Government for a period of twenty years of the right to take seals on the Pribilof Islands, in the Bering Sea; those islands consisting of islands St. Paul, St. George, and Walrus Island. At the expiration of the said lease, in 1890, the United States Government invited bids for a lease for a second period of twenty years, and a lease was given to the North American Commercial Company, and in this company deponent has never had any interest. That during the whole of the period which deponent has been engaged in this business it has had his close attention. Deponent has talked at great length with the captains of his various ships, most of whom are now no longer living, and with officers of the Alaska Commercial Company; he has also inspected many thousands of skins of seals caught by his vessels, and has also seen many thousands of skins in the warehouses of C. M. Lampson & Co., in London. The members of that firm at the present time are Sir George Lampson, Emil Teichman, Norman Lampson, and Alfred Fraser. The firm of C. M. Lampson & Co. receive, handle, and sell a very much larger number of seal skins than all the other houses in the world together. The whole catch of the Alaska Commercial Company was annually consigned to that firm for

Lampson & Co., the consignees of lessees of Pribilof and Russian Islands, and of deponent.

sale at public auction in the city of London, and much the larger proportion of all the other catches that have been made by deponent's vessels in other parts of the world have likewise been consigned to them; and the present lessees of the Pribilof Islands, deponent understands, still consign their catches to them, as do the Russian Seal Skin Company, who are the lessees of the Russian Islands in the Bering Sea, known as the Commander Islands.

Deponent's views as to sealing business set forth in statement submitted to Congress.

Second. Deponent's views as to the history of the sealing business down to the year 1887 are best set forth in a statement prepared by him personally, and submitted to a committee of Congress on merchant marine, hereto annexed and marked A. Before submitting that statement to the committee, deponent submitted it to the firm of C. M. Lampson & Co., of London, who have been his correspondents, and in reply received from them a letter, the original of which

deponent now has, and a copy of which is hereto annexed and marked B. Deponent thinks no modification of the statements made in those two communications is necessary in the light of subsequent events, excepting in respect to the prediction of the Russian authorities that in consequence of the reckless and indiscriminate killing of seals by the Americans, the Pribilof herd would emigrate to the Russian Islands. That prediction has not been verified. There is no intermingling of the herds, and the skins of the two herds of the Pribilof and Commander Islands may be so readily distinguished from each other that an expert would have no difficulty in at once throwing out from the catch taken on the Commander Islands any skins of the Pribilof herd, and *vice versa*; and deponent understands from persons who have had long experience in the examination of the living animals that the two herds so differ as to belong to separate species of the same genus, and can readily be distinguished from each other.

Alaskan and Russian herds do not intermingle.

Skins of the herd readily distinguishable.

Third. Deponent further says that, commercially speaking, the seal skins now coming upon the markets of the world are obtained principally from three catches, known as the Copper, the Alaska, and the Northwest catches. The first includes the skins taken by the Russian Sealskin Company from the islands of Copper and Bering, known as the Commander Islands; also from Robben Island in the Okhotsk Sea. The Robben Island skins differ from those of the Commander Islands. The Alaska catch includes the seals killed upon the Pribilof Islands by the lessees of the United States, and the Northwest catch includes the seals caught in the open Pacific and Bering Sea, exclusively, by what are known as poaching vessels, and are distinguished from the Alaska catch by the fact that they are all pierced by bullet, buckshot, or spear, and are almost all females; and the skins of these three catches, as deponent has before stated, are readily distinguishable from each other and are well recognized in the trade as distinguishable from each other and the differences between are clearly evidenced in the different prices which have always been obtained for the seal skins of the three catches; for instance, the skins of the Alaska catch now command and have always commanded by 20 or 30 per cent a better price than skins of the same size from the Copper catch; and this difference is also recognized by the Russian Government, who lease the privilege of catching upon the Commander Islands upon terms 25 per cent less than the terms exacted by the United States for the lease catch upon the Pribilof Islands.

Present sources of supply.
Copper skins.

Alaska skins.

Northwest skins.

Higher price of Alaska skins.

Fourth. Deponent further says that the skins of the Northwest catch are almost entirely the skins of females. That the skins of males and the skins of females may be as readily distinguished from each other as the skins of the different sexes of any other animals, when seen before being dyed and dressed, and that the reason why the skins of this catch are almost exclusively females is that the male seal is much more active and much more able to escape from the boats engaged in this manner of hunting than the female seal, and that a large number of the female seals included in the Northwest catch are of animals heavy with young. A large number of females are also caught on their way from and to the Pribilof Islands and their feeding

Northwest catch mostly females.

Reason therefor.

grounds before and after the delivery of their young on those islands.

Waste of life.

Deponent is of the opinion that in addition to the seals actually caught a very large number are killed and not caught; and he bases this opinion upon the declaration to him of large numbers of persons engaged in pelagic sealing. He is not able to state accurately what that proportion is, but considers that two-fifths would be a very conservative estimate; that is, of the total number killed three-fifths are secured and two-fifths lost.

Forty per cent lost.

The method of sealing by the poaching vessels, that is, of shooting the seal from boats and catching them in the open water and then salting them down on the vessels, affords another explanation of the difference in the prices obtained for the skins of the Northwest and the other catches.

Less price obtained for Northwest skins.

That is, nearly all of the skins of the Northwest catch are in the first place marked with bullet or buckshot holes, and, in the second place, the curing being done on the vessels, where there are no proper facilities for such curing, the skins are inferior to those cured on the islands, where such facilities exist.

Fifth. Deponent, by reason of his experience in the business, his observation, conversations with those physically engaged in catching and curing skins, and the custody of herds on the islands, feels justified in expressing the opinion that the numbers of the seal herds have, since the introduction of the open-sea sealing on a large

Decrease of seals.

scale, suffered serious diminution. The killing of large numbers of females heavy with young can not, in deponent's knowledge, but have that effect; and the killing of females shortly after the delivery of their young can not but have the effect of causing the death of their offspring through lack of nourishment; and deponent is of the opinion that if no restriction be imposed upon such indiscriminate killing as has been going on in Bering Sea and the North Pacific since the year 1885 by the poachers,

Protection necessary.

the sealing industries of the North Pacific will follow the course of those industries that formerly existed in the southern seas; and that there is only a measurable time, say at the outside five years, when, if the present condition of things continues, the seals of Bering Sea will be as extinct as the seals of south sea islands.

Deponent says that the most complete protection to the herds would be

Absolute prohibition the best protection.

Close season with a zone may suffice.

the absolute prohibition of open-sea hunting; but that it may be sufficient protection for the herds in the North Pacific if a close season can be arranged for all the seal north of the fiftieth parallel, north latitude, and west of the one hundred and fiftieth degree of west longitude from the 1st day of May to the 1st day of November. Deponent regards it as important that the seal herd should be protected as above indicated in the North Pacific, as otherwise they will be exterminated, even if sealing be prohibited in the Bering Sea.

Sixth. Deponent further says that the number of persons who are

Persons engaged in the industry in Great Britain and the United States.

engaged in the handling, dressing, and dyeing of seal skins in Great Britain is about 2,000, many of whom are expert workmen and receive high wages; and the number in the United States is about 300. The number of persons engaged upon the poaching vessels is about 10 to each vessel, and a considerable number of the persons engaged upon the Canadian sealers are American citizens.

The amount of revenue derived by the United States from the Alaska catch can be estimated from the following figures, carefully compiled by deponent, from 1872 to 1887, inclusive:

Revenue derived by
United States from
Alaska catch.

The total number of skins dressed and dyed in London and shipped to the United States during those sixteen years, was 825,000. The value of the same was £3,253,941, which at exchange of \$4.80 would produce \$15,618,916; the duty upon which at 20 per cent ad valorem would be \$3,123,783. The average duty per annum is \$195,236. The average rental received by the Government and tax during these years from the Alaska Commercial Company was \$317,500, making a total average to the United States from the Alaska seal skins of \$512,736; and the total during the sixteen years above noted of \$8,203,776, all of which, as deponent believes, will be lost to the United States in the future if the destruction is not prohibited. Deponent believes and says that if unrestricted pelagic sealing be allowed to continue throughout the whole of Bering Sea, not only will the United States Government soon be deprived of a considerable annual revenue, and over 2,000 English workmen of skilled employment, of which they now have a practical monopoly, but a portion of the civilized world will hereafter be deprived of a useful and valuable fur-bearing animal; and a great and irreparable injury will thus be done to various legitimate industries which have been built up by the authorized lessees of Russia and the United States and the firm of C. M. Lampson & Co., which industries are confined to one locality and which if fostered promise to continue in existence for an indefinite length of time; while in return for such injury there will be only a comparatively slight benefit of a few years' duration to a comparatively small number of men.

Skins dressed and
dyed in London and
shipped to United
States.

Result of unre-
stricted pelagic seal-
ing.

The deponent resided in the Hawaiian Islands for a period of twenty years during the time his firm was engaged in whaling and sealing as above stated; during that time he was brought in contact with many masters of vessels and other seafaring men, who made frequent voyages between the Hawaiian Islands and Puget Sound, and he learned from them that during the months of November and December they occasionally encountered schools or "pods" of seals moving from north towards the lower coast of California; he himself in one of his voyages in the month of November saw such "pods;" and from these facts and his knowledge of the habits of the seals which frequent and have their home on the Pribilof Islands, he is satisfied that the herd of said islands confine their migration to the waters of the American side of the ocean, and that when they leave the islands they go through the passes of the Aleutian Islands to the coast of southern California and thence along up the coast again to the Pribilof Islands.

Migration.

The deponent was for more than ten years previous to the sale and transfer of Alaska to the United States engaged in whale fishing in the North Pacific and Arctic Oceans, employing quite a number of vessels each year in that business; that these vessels were permitted by the Russian Government to freely enter and pass through Bering Sea in pursuit of whales, but it was known to the masters of the deponent's vessels that the Russian Government did not permit the taking of seals in any of the waters of Bering Sea, and the deponent was informed by the masters of his vessels and by others who resorted to Bering Sea dur-

Sealing forbidden
by Russia in Bering
Sea before 1867.

ing the Russian occupation of Alaska that no taking of seals in the waters of said sea was attempted or permitted.

A statement is attached hereto, prepared by deponent, giving his estimate of the number of female seals killed by pelagic hunting in the past twenty-one years.

Estimate of females
killed by pelagic
sealing in past 21
years.

C. A. WILLIAMS.

Subscribed and sworn to before me, a notary public in and for the District of Columbia, this 2d day of April, 1892.

[L. S.]

JNO. J. COOK,
Notary Public.

EXHIBIT A.

Statements and statistics relative to the fur-seal fishery.

[Submitted to committee of Congress on merchant marine and fisheries, 1888.]

Examination of the earliest records of the fur-seal fishery shows that from the date of man's recognition of the value of the fur the pursuit of the animal bearing it has been unceasing and relentless. Save in the few instances to be noted hereafter, where governments have interposed for the purpose of protecting seal life, having in view benefits to accrue in the future, the animal has been wantonly slaughtered with no regard for age, sex, or condition. The mature male, the female heavy with young, the pup, dependent for life on the mother, each and all have been indiscriminately killed or left to die of want. This cruel and useless butchery has resulted in complete extermination of the fur-seal from localities which were once frequented by millions of the species; and, so far as these localities are concerned, has obliterated an industry which a little more enlightened selfishness might have preserved in perpetuity to the great benefit of all ranks of civilized society. Nothing less than stringent laws, with will power to enforce them against all violators, can preserve for man's benefit the remnant of a race of animals so interesting and so useful.

Man's pursuit of the
fur seal.

Indiscriminate
slaughter.

Protection by gov-
ernment necessary.

The most valuable "rookery" or breeding place of these animals ever known to man is now in the possession of the United States. How it has been cared for in former years, and brought to its present state of value of usefulness, will be shown later on. But the matter of its preservation and perpetuation intact is the important question of the moment, and that this question may be considered intelligently the evidence is here presented of the wanton destruction that has befallen these animals when left unprotected by the law to man's greed and selfishness, which, it is fair to say, is all that could be expected from the unlicensed hunter, whose nature seeks individual and immediate gain, with no regard for a future in which he has no assurance of personal advantage.

The most valuable
rookery is in posses-
sion of the United
States.

Its preservation the
question.

Destruction of other
herds.

The following statistics are gathered from the journals of early navigators, and such commercial records as are now available are submitted:

KERGUELEN LAND.

An island in southern Indian Ocean discovered about 1772. The shores of this island were teeming with fur-seal when it first became known. Between the date of its dis-

Kerguelen Land.

covery and the year 1800 over 1,200,000 seal skins were taken by the British vessels from the island, and seal life thereon was exterminated.

CROZETTS.

The Crozett Islands, in same ocean and not far distant, were also visited and hunted over and the seal life there was totally exhausted.

Crozett Island.

MASAFUERO.

An island in southern Pacific Ocean, latitude $38^{\circ} 48' S.$, longitude $80^{\circ} 34' W.$, came next in order of discovery, and from its shores in a few years were gathered and shipped 1,200,000 fur-seal skins.

Masafuero Island.

Delano, chapter 17, page 306, says of Masafuero: "When the Americans came to this place in 1797 and began to make a business of killing seals there is no doubt but there were 2,000,000 or 3,000,000 of them on the island. I have made an estimate of more than 3,000,000 that have been carried to Canton from thence in the space of seven years. I have carried more than 100,000 myself and have been at the place when there were the people of fourteen ships or vessels on the island at one time killing seals."

SOUTH SHETLANDS.

In 1821-'23 the South Shetland Islands, a group nearly south from Cape Horn, became known to the seal-hunters, and in two years over 320,000 seals were killed and their skins shipped from these islands.

South Shetland Islands.

SOUTH GEORGIA.

Later still seal were found on the island of South Georgia, South Atlantic Ocean, and from this locality was obtained over 1,000,000 of fur-seal, leaving the beaches bare of seal life.

South Georgia Island.

CAPE HORN.

From the coasts of South America and about Cape Horn many thousands of fur-seal have been taken, and of the life once so prolific there nothing is now left save such remnants of former herds as shelter on rocks and inlets almost inaccessible to the most daring hunter.

Cape Horn.

This record shows the nearly complete destruction of these valuable animals in southern seas. Properly protected, Kerguelan Land, Masafuero, the Shetlands, and South Georgia might have been hives of industry, producing vast wealth, training schools for hardy seamen, and furnishing employment for tens of thousands in the world's markets where skins are dressed, prepared, and distributed. But the localities were no man's land, and no man cared for them or their products save as through destruction they could be transmitted into a passing profit.

The skins from the localities mentioned were marketed mainly in China, as exchange for silks, teas, etc.; a portion went to Europe, and in France and England were manufactured into caps, gloves, and other small articles, being simply unhaird and dressed. Their commercial value in China was

Market for those skins.

about \$5 per skin for first class, and something less in Europe. But Delano, chapter 11, page 197, says: "Having agreed for a freight, Captain Stuart ordered his ship to Canton; he sold his cargo of seals, 38,000, for only \$16,000, so reduced was the price of this article." There was no regular market established for them, and, under the conditions of their taking, there could be none; for at one time there would be a vast oversupply, while at another skins would be unattainable, and always the assurance that however plentiful might be the supply for a season the end was not distant, for utter destruction was the rule of capture, and no reproduction was possible. Capital could not undertake to develop such a trade, for the end was in sight from the beginning.

In 1872, fifty years after the slaughter at the Shetland Islands, the localities before mentioned were all revisited by another generation of hunters, and in the sixteen years that have elapsed they have searched every beach and

Revisit to those regions.

gleaned from every rock known to their predecessors, and found a few secluded and inhospitable places before unknown, and the net result of all their toil and daring for the years scarcely amounts to 45,000 skins, and now not even a remnant remains save on the rocks off the pitch of Cape Horn. The last vessel at South Shetlands this year of 1888, after hunting all the group, found only 35 skins, and the last at Kerguelan Land only 61, including pups. So in wretched waste

and wanton destruction has gone out forever from the southern seas a race of animals useful to man, and a possible industry connected with them, and it is plain that without the aid of law to guide and control no other result could have been expected or attained.

Seals exterminated.

The seal life of to-day available for commercial purposes is centered in three localities:

Present sources of supply. Lobos Islands.

(1) The Lobos Islands, situated in the mouth of the river La Plata, owned and controlled by the Uruguay Republic and by that Government leased to private parties for the sum of \$6,000 per annum and some stipulated charges. The annual product in skins is about 12,000.

The skins are of rather inferior quality. Insufficient restrictions are placed upon the lessees in regard to the number of skins permitted to be taken annually, consequently there is some waste of life; nevertheless, the measure of protection allowed has insured the preservation of the "rookery," and will continue so to do.

(2) Kommandorski Couplet, which consists of the islands of Copper and Bering, near the coast of Kamchatka, in that portion of Bering Sea pertaining to Russia. These islands yield about 40,000 skins per annum of good quality, and are guarded by carefully restrictive rules as to the killing of seal, analogous to the statutes of the United States relative to the same subject.

Commander Islands.

The right to take seals upon them is leased by the Russian Government to an association of American citizens, who also hold the lease of the islands belonging to the United States, and are thus enabled to control and direct the business in fur-seal skins for the common

Lease from Russian Government to Alaska Commercial Company.

benefit of all parties in interest. These islands can hardly be said to have been "worked" at all for salted seal skins prior to the cession of Alaska by Russia to the United States, and the United States Government now profits by the industry to the extent

of the duty of 20 per cent collected on the "dressed skins" returned to this country from the London market. From 1873 to 1887, inclusive, this return has been 121,275 skins.

(3) The Pribilof group consists of the islands of St. Paul and St. George, and is a Government reservation in that part of Bering Sea ceded to the United States by Russia, together with and a part of Alaska. So exhaustive an account of these islands and their seal life has been given by Mr. H. W. Elliott, special agent of Treasury Department in 1874, and since intimately connected with the Smithsonian Institution, which account has been made a part of Tenth Census Report, that it would be intrusive here to attempt to supplement aught, and therefore only generalizations based on said report and such statements of life and procedure on the islands to-day are presented as may be pertinent in this connection.

These islands are places of annual resort for the largest herd of fur-seal the world has ever known, and the only one of great importance now existing. After most careful examination, Mr. Elliott estimated their numbers at over 4,500,000. After a thorough study of the influences which act for or against the increase or diminution of the life of this vast body, taking into account the killing of 100,000 annually for their skins, Mr. Elliott says: "I have no hesitation in saying quite confidently that under the present rules and regulations governing the sealing interest on these islands, the increase or the diminution of the life will amount to nothing; that the seals will continue for all time about the same number and condition." It goes without saying that if new influences for destruction are brought in, seal life would be diminished in proportion to the effectiveness of said influences.

It is safe to say that these animals are all United States property, and having been born on United States soil and reared in United States waters in the twenty-one years that have elapsed since the cession of Alaska by Russia, and having the instinct of regular return to their home, which accords them a status in law, they would seem to be entitled to the protection of their Government while they are in the acknowledged boundaries of their country.

The right to take 100,000 seal skins annually from these islands, under certain stipulated restrictions, is leased by the Government of the United States to an association of American citizens known as the Alaska Commercial Company. The company pays a rental of \$55,000 per annum and \$2.62½ per skin, a total of \$317,500 per annum, for this right. They are also obligated to a certain care of the Aleuts inhabiting the islands and to a partial provision for their needs, both mental and physical.

They pay to these Aleuts 40 cents per skin or \$40,000 per annum for their services in taking the skins. They have also built for them a church and school-house, and maintain teachers and physicians on the islands.

At the time of the cession of Alaska to the United States these people were living in huts, or more properly holes in the ground, and had no ambitions or aspirations beyond supporting their daily existence in a painful and laborious way. Now they are living in frame houses provided for them by the company, and have accumulated savings, invested in United States bonds in San Francisco, amounting on August 1, 1887, to \$94,128.28. It is safe to say

Pribilof Islands.

Size of herd of.

Property of the United States.

Lease to Alaska Commercial Company.

Terms of.

Management; pay of natives.

Improved condition of natives.

that no laboring men within the boundaries of the United States are better paid or better cared for.

As to the manner in which the 100,000 seals, which furnish the annual quota of skins, are taken, Mr. Elliot says: "By reference to the habits of the fur-seal it is plain that two-thirds of all the males that are born (and they are equal in number to the females born) are never permitted by the remaining third, strongest by natural selection, to land upon the same ground with the females, which always herd together en masse. Therefore, this great band of bachelor seals, or 'hollus chickie,' is compelled, when it visits land, to live apart entirely, miles away frequently, from the breeding grounds, and in this admirably perfect manner of nature are those seals which can be properly killed without injury to the rookeries selected and held aside so that the natives can visit and take them, as they would so many hogs, without disturbing in the slightest degree the peace and quiet of the breeding grounds where the stock is perpetuated."

In this connection it is proper to note that the Company are not allowed to take any seal in the water nor to make any use of firearms in their capture. And it will at once be perceived that if the seal in Bering Sea are harassed and captured by means of firearms, spears, or drag-nets the routine of their lives is interfered with, their habits broken up, females with young killed, and such general disturbance caused that those not slaughtered will seek other hauling places and the United States thus lose their sole source of income from Alaska, as well as the control they now enjoy of a valuable trade, and the impoverished Aleuts, who have no other means of gain open to them, would become a burden on the nation instead of being the self-supporting and self-respecting citizens they now are. Indeed, it was predicted by Russian authorities conversant with seal life, at the time of the cession of the territory, that the reckless and indiscriminate killing of seal by the Americans would soon drive the Pribilof herd to the Russian islands, and that thus they (the Russians) would regain and retain all that was most valuable in the ceded territory. But the wisdom of Congress, appreciating the value of the islands as seal rookeries, was shown by legislative acts protecting the animal and by leasing the right to take skins under restrictions to a responsible association of American citizens, with the result that at the expiration of a twenty years' lease the United States Government will, from its proceeds, be fully reimbursed for the outlay for the purchase of the entire Territory of Alaska, and will also have its herd of seals intact, provided the Government will protect the seal in Bering Sea against unlicensed hunters and foreign marauders.

Restrictions on the lessees.
Class of seals killed.
Disturbance of seals; result of.
Prediction by Russians of migration of Pribilof herd to Commander Islands.
Effect of governmental protection.

Immediately upon commencing operations under the lease it was apparent that the interests of the Government and those of the Company were so intimately interwoven that a policy of entire good faith between the contracting parties was the only one that could be pursued, and so well has this relation been sustained in the eighteen years elapsed since the lease was made that no word of complaint has ever been uttered on the part of the Government against the company, and no complaint of improper action that has been made by parties inimical to the Company has been in the least degree sustained, though twice, because of misrepresentation, the Company has been subjected to most rigorous investigation by committees of

Compliance by lessees with terms of lease.

Congress. The Company has received just consideration at the hands of the Government, and though they have suffered to some extent from complications of a political character, arising from the improper acts of crews of foreign and domestic vessels, who, in contravention of the laws of the United States, have entered upon the waters of the Territory and slaughtered maliciously the seals, yet they feel assured that the Government will so assert and maintain its rights and authority that no cause of complaint will continue to exist.

Lessees feel assured of protection of their rights.

Under Russian rule there were many years of faulty management, and at one time much danger of extermination of seal life at these islands, but in time the Company came to regard seal life with so good an eye to preservation and perpetuation that their rules and regulations in regard to these points are still in force on the islands; but, while they permitted free navigation throughout Bering Sea, they sternly prohibited any interference with seal life in the waters thereof, and so the United States Government will be forced to do if it would preserve and perpetuate its present splendid property.

Until about 1853 the skins shipped by the Russian American Company from these islands, over which they had absolute control, up till the time of the cession to the United States, went forward in the parchment (or dried) state at the rate of about 20,000 per annum. About 1853 a small trial shipment of salted skins was shipped in the hands of Messrs.

How skins were prepared by the Russian American Company.

J. M. Oppenheim & Co., London, who had for many years previous been the leading firm who unhaird and dressed fur-seals from Lobos Islands, Cape of Good Hope, etc. The first experience with salted Alaskas proved a failure, the skins not having been properly cured; by degrees, however, the skins came forward in better condition, and in the year 1858 Messrs. Oppenheim contracted with the Russian American Company for an annual supply of from 10,000 to 12,000 salted fur-seals at 10s. 10d. per skin, delivered in London. This quantity was increased about the year

Improved condition of the skins.

1864 to 20,000 per annum, the contract remaining in force until the time when the territory was handed over to the United States Government. In addition to the salted fur-seals, Messrs. Oppenheim received annually from the Russian American Company about 10,000 parchment fur-seal at a price materially below that of the salted skins. Messrs. Oppenheim shipped to the United States the first dressed and dyed Alaska seals about 1860, but their shipments only amounted to a few thousand skins per annum until 1865. From that year until 1872, when this firm was liquidated, the quantity shipped by them increased from 2,000 to 3,000 per annum to probably 10,000 skins.

Such was the state of the trade in fur-seal skins at the time of the lease by the United States Government to the Alaska Commercial Company. Skins were of low value; there

State of sealskin trade at time of lease to Alaska Commercial Company.

were no regular open sales; the dressing and dyeing were badly done, and the net result of sales was insufficient to meet the rental, tax, and charges imposed by the Government on the lessees at the date of the issue of the lease. The company undertook the building up of this business by the introduction of method and system on the islands in the place of the loose and careless management, by careful selection of skins and great attention to the curing of them and by guaranteeing regular supply as to quantity and quality to the London market. They were most ably seconded in their efforts by the London

Improved methods introduced by the lessees.

house of C. M. Lampson & Co., to whom the skins were consigned, and to the critical acquaintance with value of furs, to the sound judgment and unsurpassed business ability of the then head of that house; and to the confidence assured to the buyers by his name in connection with the sales the success of the undertaking in London is largely due. Up

Assistance rendered by Lampson & Co., Oppenheim & Co., and Martin & Teichmann.

to the time that this company was formed the dressing of seal was efficiently done only by the firm of Oppenheim & Co., but on their liquidation there was great danger that the business would fall into weak hands and be so badly done as to render the manufactured fur-seal unpopular. Realizing this fact, Messrs. Lampson & Co. stepped in and by liberal inducements led Messrs. Martin & Teichmann to carry on the Alaska factory.

After a series of difficulties, such as strikes and trouble with the work people, who were determined that no more or better work should be done than of old, this factory has gradually succeeded, by continual improvement, in rendering the dressing and dyeing, formerly a most uncertain undertaking, a thoroughly reliable process. These efforts on the island and in London combined largely account for the measure of success the company has attained. In addition, however, large expenditure has been necessary in all the European

Success.

centers to keep the article before the public and in their favor. The laws of trade take these skins to London for market. Two public sales are held each year, usually in March and November.

London trade sales.

At these sales attend buyers from Russia, Germany, France, England, and America. The company sells the entire stock on hand at each occasion, and has no further connection with the skins. Its rule is to meet the market, and it buys no skins for account, nor has it any interest in the dressing and dyeing. That this work is done so

London the principal place of dressing and dyeing.

States Government

Revenue to United States on imported skins.

adds to its revenue from the seal islands by the collection of 20 per cent duty on the valuation of this return. It is estimated that 75,000 dressed and dyed skins were shipped from London to New York in 1887. To the intelligent inquirer as to the value of the system now in operation for handling and disposing of the annual quota of skins from the seal islands, no doubt can remain that it is the best, indeed the only one possible to pursue with success. The Government itself could not enter

The Government could not carry on the business of killing on the islands.

into business and follow details either with propriety or hope of profit.

To open the sea and the rookeries to the taking of seal by any who choose to seek them would be simply to surrender the herd to destruction. But a danger menaces the system and the seals which the Government alone can avert, viz, the intrusion of foreign vessels with armed crews in the waters of Bering Sea, with intent to kill seal in the water between the Aleutian chain of islands and the Pribilof group. In this water the seal rest and sport after their long migration; "here the females, heavy with young, slowly nearing the land, sleep soundly at sea by intervals, reluctant to haul out of the cool water upon the rookeries until the day and the hour which limits the period of gestation;"

Especially if permitted in Bering Sea.

here, with gun and spear and drag net, these marauders desire to reap their harvest of destruction and for

their selfish greed exterminate the animal which now, under the wise policy of Congress, plays so important a part in the economy and distribution of commerce. Three years of open sea would suffice in these waters to repeat the story of the southern ocean and the fur-seal would be of the past, and a valuable industry would be obliterated forever. Let the sea be open to all commerce that harbors no evil intent, but protect the seal life that swims in its waters and "hauls" on its shores.

Let the sea be as free as the wind to all legitimate commerce, but protect the unique possession of seal life that harms none and benefits thousands.

C. A. WILLIAMS.

EXHIBIT B.

[From C. M. Lampson & Co. to C. A. Williams, August 22, 1889.]

LONDON, 64 QUEEN STREET, E. C.,
August 22, 1888.

DEAR SIR: We beg to acknowledge receipt of your favor of the 10th instant, inclosing draft of a paper to be submitted to Congress on merchant marine and fisheries.

We have read the paper with a great deal of interest and consider that it places the matter in a thoroughly impartial way before its readers. It has been so carefully prepared and goes into all details so fully that we can add but little to it. There are, however, one or two points to which we beg to draw your attention, and which you will find marked in red ink on the paper.

Agrees with Mr. Williams's statements to Congress.

When speaking of the supply of fur-seal skins we would suggest mentioning the following localities:

Additional sources of supply.

(1) *Cape of Good Hope*.—From some islands off this cape, under the protection of the Cape Government, a yearly supply of from 5,000 to 8,000 skins is derived. All these skins come to the London market, part of them being sold at public auction, the remainder being dressed and dyed for account of the owners.

Cape of Good Hope.

(2) *Japan*.—The supply from this source has varied very much of late years, amounting sometimes to 15,000 skins a year, at others to only 5,000. Last year, we understand, the Japanese Government passed stringent laws prohibiting the killing and importation of seals, with the view of protecting seal life and encouraging rookeries, and the consequence has been that this year very few skins have come forward.

Japan.

Protection by Japanese Government.

(3) *Vancouver Island*.—For many years past, indeed long before the formation of the Alaska Company, regular supplies of fur-seals in the salted and parchment state have come to the London market, killed mostly off Cape Flattery. The quantity, we should say, has averaged at least 10,000 per annum. This catch takes place in the months of March and April, and we believe that the animals from which these skins are derived are the females of the Alaska seals, just the same as those caught in the Bering Sea.

Vancouver Island.

Had this quantity been materially increased we feel sure that the breeding on the Pribilof Islands would have suffered before now; but fortunately the catch must necessarily be a limited one, owing to the stormy time of the year at which it is made and the dangerous coast, where the seals only for a short time are found. It must, however, be

evident that if these animals are followed into the Bering Sea and hunted down in a calm sea in the quietest months of the year a practically unlimited quantity of females might be taken, and, as you say, it would be only a few years till the Alaska seal was a thing of the past.

Yours, very truly,

C. M. LAMPSON & Co.

C. A. WILLIAMS, Esq.,
New London.

Deposition of Joseph D. Williams, furrier, New York.

GENERAL SEALSKIN INDUSTRY.

STATE OF NEW YORK,

City and County of New York, ss:

Joseph D. Williams, being duly sworn, says: That he is 74 years of age, a citizen of the United States, and a resident of Brooklyn, in the State of New York; that he has been engaged in the business of dressing and dyeing fur-seal skins continuously for fifteen years last past, and prior to that time at intervals during the whole time he has been engaged in business, during a period of some fifty-odd years, he has dressed and dyed seal skins, and that his father was engaged in the same business before him; that for the last fifteen years he has had consigned to him by fur dealers from 8,000 to 10,000 seal skins annually, for the purpose of dressing and dyeing the same; that about 50 per cent of the skins so received by him came from London in casks marked as they are catalogued by C. M. Lampson & Co., and are the skins belonging to what is known as the "Northwest catch;" and deponent is informed and believes that the Northwest catch, as the term is used in the trade, means the skins of seals caught in the open sea and not upon the islands. Another reason for this belief is the fact that all of the skins of the Northwest catch contain marks showing that the animal has been killed by bullets or buckshot, the skins being pierced by the shot, whereas the skins killed on the American and Russian islands are killed on land by clubs and are not pierced.

Fifty per cent of skins.

"Northwest catch."

That of the skins of the Northwest catch coming into his hands for treatment probably all are the skins of the female seal, and that the same can be distinguished from the skins of the male seal by reason of the breasts and of the thinness of the fur around the same and upon the belly, most of the female seals being killed while they are bearing their young, and the fur therefore being stretched and thinner over that part of the body; and also for the further reason that the head of the female seal is much narrower than that of the male seal, and that this point of difference is obvious in the skins of the two classes. That of the total number of the skins received by him about 25 per cent are the skins of the "Alaska" and "Copper" catch. That all the skins of the "Alaska" catch are male seals, and an overwhelming proportion of the "Copper" catch are likewise male skins.

"Alaska" and "Copper" catches nearly all males.

That the remainder of the skins sent to deponent for dressing and dye-

ing, as aforesaid, are received by him through the house of Herman Liebes & Company, of San Francisco, and others; the majority, however, from Herman Liebes & Company. The skins received from the latter sources are from each of the three catches known to the trade as the "Copper," "Alaska," and "Northwest" catch, although the major part thereof belong to what is known as the "Northwest" catch, and are, as in the case of the skins received from London of that catch, all skins of the female seal.

"Northwest" catch
all female seals.

J. D. WILLIAMS.

Subscribed and sworn to before me this 29th day of March, 1892.

[L. S.]

ROBERT L. HARRISON,

Notary Public, City and County of New York.

Deposition of Joseph D. Williams, furrier, New York.

GENERAL SEALSKIN INDUSTRY.

STATE OF NEW YORK,

City and County of New York, ss :

Joseph D. Williams, being duly sworn, says: I am 75 years of age, and reside in Brooklyn, N. Y. My business is that of dressing and dyeing furs, and I have been engaged in it for over sixty years. Most of the furs dressed and dyed in my establishment are fur-seal skins, and during each of the past five or six years I have dressed and dyed from 8,000 to 10,000 seal skins. I employ, and for some time past have employed, about 60 workmen, and my pay roll amounts to about \$900 a week. Most of these workmen can be classed as skilled laborers. I dress and dye fur-seal skins of the Alaska, Copper, and Northwest coast catches. I can readily distinguish the skins belonging to each of them. I can also readily tell a female skin from a male skin. The predominance of the former over the latter in the Northwest coast catch is one of its most distinguishing features. I can not state exactly what the percentage is of each sex, but I am sure that as a rule there are found in the Northwest coast catches at least ten times as many female skins as male skins. There are various ways of determining the sex of the animal from which seal skins are taken. Some of them are the following: (1) Female skins have teats, which are easily found even in the salted skin, especially when the animal is over two years of age. (2) The shape of a female skin is narrower at the head and on the shoulders. (3) There is a perceptible difference in the character of the hair of the skins of the two sexes.

Experience.

Sixty workmen employed.

Northwest catch mostly females.

J. D. WILLIAMS.

Sworn to before me this 17th day of June, 1892.

[L. S.]

FORBES J. HENNESSY,

Notary Public (No. 279), New York County.

Deposition of Maurice Windmiller, furrier, San Francisco.

PELAGIC SEALING.

STATE OF CALIFORNIA,
City and County of San Francisco, ss:

Maurice Windmiller, having been duly sworn, deposes and says: My age is 46; I reside in San Francisco; my occupation is that of a furrier. I have been engaged in the fur business all my life, and my father was a furrier before me. I am an expert in dressed and undressed, raw, and made-up furs, and also a manufacturer and dealer in the same. I have bought and examined large numbers of fur-seal skins during the last twelve years, caught by sealing schooners both on the Russian and American side of the North Pacific and Bering Sea, and I can easily distinguish one from the other.

The Russian seal is a smaller seal, and the fur is not as close as the fur of the Alaska seal, nor as good quality. They are an entirely different herd from those on the American side, and their skins have peculiar characteristics by which it is not difficult to separate them. In examining and purchasing seal skins from the schooners in their raw state I have observed that 90 per cent of their catch are females. I know that to be a fact, because the heads of the females are smaller, the bellies larger, and the teats can be plainly seen. The teats show more plainly when the skin is dressed and dyed.

In examining the skins taken by sealing schooners I have found most of them perforated with shot, making them much less valuable thereby. Formerly more of them used to be killed with a rifle, which did not injure the skin as much.

MAURICE WINDMILLER.

Subscribed and sworn to before me this 8th day of April, A. D. 1892.
[SEAL.]

CLEMENT BENNETT,
Notary Public.

TESTIMONY RELATING TO THE GENERAL SEALSKIN INDUSTRY IN GREAT BRITAIN.

Deposition of H. S. Bevington, head of the firm of Bevington & Morris, furriers, London.

GENERAL SEALSKIN INDUSTRY.

H. S. Bevington, M. A., being duly sworn, doth depose and say: That he is 40 years of age and a subject of Her Britannic Majesty, and is the head of the firm of Bevington & Morris, doing business as fur merchants and manufacturers, at 28 Cannon street, in the city of London. That his said firm was founded in the year 1726 and has been continued in the same family during the whole of these years down to the present time, and has been engaged during the whole of the period since 1726 in the same business, dealing in furs and leather. That deponent has been in the business ever since the year 1873. During the whole of the period since that date his said firm have been in the habit of buying fur-seal skins, and he knows from his general knowledge of the business that prior to that time they were in the habit of buying seal skins ever since they became an article of commerce. That deponent has, personally, handled many thousands of skins of the fur-seal, and by reason of that fact and of his experience in his business has a general knowledge of the history of the fur-seal skin business, and a general and precise knowledge of the several kinds of skins which now, and for many years last past, have come upon the London market. That since deponent has been in business skins coming upon the London market have been principally divided into three classes, known as the Alaska catch, the Copper catch, and the Northwest catch. Small supplies have also been received from the Southern Sea, the Lobos Islands, Falkland Islands, and Cape Horn, but the skins arriving from these last mentioned localities make no figure in the market. That what is known as the Alaska catch consist of skins of seals which are killed upon the Pribilof Islands in the Bering Sea, and the Copper catch of skins, which are killed upon the Copper and Bering Islands, in Russian waters.

Experience.

Alaska, Copper, and Northwest skins, differences between.

That the Northwest skins consist of skins taken from animals which are caught in the open Pacific Ocean off the coast of British Columbia or in the Bering Sea. That the differences between the three several sorts of skins last mentioned are so marked as to enable any person skilled in the business, or accustomed to handle the same, to readily distinguish the skins of one catch from those of another, especially in bulk, and it is the fact that when they reach the market the skins of each class come separately and are not found mingled with those belonging to the other

classes. The skins of the Copper Island catch are distinguished from the skins of the Alaska and Northwest catch, which two last-mentioned classes of skins appear to be nearly allied to each other, and are of the same general character, by reason of the fact that in their raw state the Copper skins are lighter in color than either of the other two and in the dyed state there is a marked difference in the appearance of the fur of the Copper and the other two classes of skins. This difference is difficult to describe to a person unaccustomed to handle skins, but it is nevertheless clear and distinct to an expert, and may be generally described by saying that the Copper skins are of a close, short, and shiny fur, particularly down by the flank, to a greater extent than the Alaska and Northwest skins. The skins of the male

Difference between male and female skins.

the shape of the

Eighty per cent of northwest, female.

and female animal are readily distinguishable from each other in the adult stage by reason of the difference in the shape of the heads. That the Copper and Alaska skins are almost exclusively the skins of the male animal, and the skins of the Northwest catch are at least 80 per cent of the skins of the female animal. That prior to and in preparation for making this deposition deponent says he carefully looked through two large lots of skins now in his warehouse for the especial purpose of estimating the percentage of female skins found among the Northwest catch, and he believes the above estimate to be accurate.

That the skins in the Northwest catch are also pierced with shot and spear marks, in consequence of having been killed in the open water instead of upon land by clubs. That the business of dealing in

Extent of London fur trade.

fur-seal skins in the city of London has become an established and important industry. Deponent is informed that practically all the seal skins in the world are sold in London, and the number runs up in the year to between 100,000 and 200,000 averaging considerably over 150,000 a year. These skins are sold for the most part either by the firm of C. M. Lampson & Co., through their brokers, Goad, Rigg & Co., or by the firm of Culverwell, Brooks & Co. At the auction sales, which are advertised twice or three times in the year by these firms, skins are bought by dealers from all over the world, who are present either in person or by proxy. The next stage in the industry is the dressing and dyeing of the furs, and practically the whole of these fur-seal skins sold in London are dressed and dyed in that city, the principal firms being engaged in that business, are C. W. Martin & Sons and George Rice. Deponent's own firm dress a small number of skins and have dressed in one year as many as 23,000 and formerly dyed large numbers of skins, but do not now dye skins as the secrets of the present fashionable color are now in the hands of other firms. After having been dressed and dyed, the skins of the fur seal are then passed into the hands of fur merchants, by whom in turn, they are passed to furriers and drapers and retail dealers generally. Deponent estimates the total number of persons engaged in one way or another, directly or indirectly, in the fur-seal industry, in the city of London at at least two or three thousand, many of whom are skilled laborers, all receiving high wages.

Persons engaged in the trade.

Capital invested.

That a large amount of capital is also invested in the business in the city of London, and the precise value of the industry can be estimated by reckoning the amount expended in the various processes which deponent has enumerated upon each skin. For instance, after the skins arrive at the London market they are sold at the sales at prices which in the year 1890 averaged say 80

shillings apiece. The commissions on the selling of the goods including warehousing, insurance, and so forth, deponent believes amount to 6 per cent of the price obtained. That the amount paid for dressing, dyeing, and machining each skin averages say 16 shillings. These processes take together about four or five months. The next expenditure upon the skin is, say, an average of five shillings at least for each skin for cutting up, and that thereafter there will be an average of at least from 3 shillings to 4 shillings per skin expended in quilting, lining, and making up the jackets or other garments, showing a total expenditure upon each skin for labor alone, in the city of London, of 25 shillings in addition to the percentage paid for brokerage, before the processes of manufacture began, and the most of this money is actually paid out in wages.

Deponent says, that in the above estimates he has given the bottom figures and that the amount actually expended upon the skins in the city of London undoubtedly averages a larger sum. This would make on an average of 200,000 skins a year, which is not excessive, a total expenditure annually in the city of London of £250,000, minus the amounts paid for cutting and making up in respect to the skins sent to the United States.

Deponent further says that the preservation of the seal herds and the continued supply of fur-seal skins, which, furthermore, it is important should be *constant and regular* in supply, is absolutely necessary to the maintenance of this industry. Deponent says that the reason for this opinion is shown in the history of last season's business. For instance, at the October sale the prices of skins were very high, as a short supply was expected. The skins purchased at that sale were then put into the hands of the dressers and dyers, where they would be retained, as above stated, in process of treatment four or five months. During this interval it appeared that instead of there being a short supply the poaching vessels had caught a large number of skins, 50,000 or 60,000, which being unexpectedly plumped on the market, brought the price down so that there was a loss of perhaps 25 shillings per skin on the skins bought at the October sales; and deponent further says that it is of course obvious that the business can not be maintained unless the herds are preserved from the destruction which has overtaken the South Sea herds, which formerly existed in such large numbers, and so important has the sealskin business become that if the herds were exterminated deponent says it would hardly be worth while to remain in the fur business.

Deponent says while he does not wish to express any opinion upon the matters which are in controversy, that nevertheless, looking at the question of preserving the seals from a natural-history point of view alone, and having no regard whatever to the rights of any individuals or nations, but looking at the matter simply from the point of view of how best to preserve the seals, he has no hesitation in saying that the best way to accomplish that object would be to prohibit absolutely the killing of all seals except upon the islands, and, furthermore to limit the killing of seals on the islands to the male species at particular times, and to limit the numbers of the males to be so killed. If, however, the rights of individuals are to be considered, and sealing in the open sea is to be allowed, then deponent thinks that the number of vessels to be sent out by each country ought to be limited, and the number of seals which may be caught by each vessel should be specified.

Preservation of seals absolutely necessary.

Protection necessary.

Deponent says that one reason why he thinks the killing of seals in the open sea should be prohibited and all killing limited to the islands is because deponent is of the opinion that when seals are killed in the open sea a large number must be killed which are not recovered, and consequently that the herds must suffer much greater loss than is measured by the skins of the seals caught or coming to market.

Deponent further says that one reason for this opinion is that he has had some small experience in shooting hair seals in the Scilly Islands, and has himself personally killed hair seals at a distance of 40 or 50 yards, which sank before he could reach them. Hair seals are of the same general family as fur-seals, and he has no doubt that the same thing occurs, and must occur, when the fur seals are killed on the open sea.

HERBERT SHELLEY BEVINGTON, M. A.

Sworn at No. 28 Cannon street, in the city of London, England, this 26th day of April, 1892, before me.

[SEAL.]

FRANCIS W. FRIGOUT,
*Vice and Deputy Consul-General of the
United States of America at London, England.*

Deposition of Alfred Fraser, member of firm of C. M. Lampson & Co., furriers, London.

GENERAL SEALSKIN INDUSTRY.

STATE OF NEW YORK,

City and County of New York, ss:

Alfred Fraser, being duly sworn, says:

First. That he is a subject of Her Britannic Majesty and is 52 years of age and resides in the city of Brooklyn, in the State of New York. That he is a member of the firm of C. M. Lampson & Co., of London, and has been a member of said firm for about thirteen years; prior to that time he was in the employ of said firm and took an active part in the management of the business of said firm in London. That the business of C. M. Lampson & Co. is that of merchants, engaged principally in the business of selling fur skins on commission. That for about twenty-four years the firm of C. M. Lampson & Co. have sold the great majority of the whole number of seal skins sold in all the markets of the world. That while he was engaged in the management of the business of said firm in London, he had

personal knowledge of the character of the various seal skins sold by the said firm, from his personal inspection of the same in their warehouse and from the physical handling of the same by him. That many hundred thousands of the skins sold by C. M. Lampson & Co. have physically passed through his hands; and that since his residence in this country he has, as a member of said firm, had a general and detailed knowledge of the character and extent of the business of said firm, although since his residence in the city of New York he has not physically handled the skins disposed of by his firm.

That during the last year or two a large number of skins have been sold in London by the firm of Culverwell, Brooks & Co., and that said firm, as deponent is informed and believes, have secured the consignment of skins to them during the period aforesaid by advancing to the owners of vessels engaged in what is now known as pelagic

sealing sums of money, which is stated to be \$15 per skin, as against shipments from Victoria of such skins.

Second. That the seal skins which have been sold in London from time to time since deponent first began business have been obtained from sources and were known in the markets as—

(A) The South Sea skins, being the skins of seals principally caught on the South Shetland Islands, South Georgia Islands, and Sandwich Land. That many years ago large numbers of seals were caught upon these islands, but in consequence of the fact that no restrictions were imposed on the killing of said seals they were practically exterminated and no seal skins appeared in the market from those localities for many years. That about twenty years ago these islands were again visited and for five seasons a considerable catch was made, amounting during the whole five seasons to about 30,000 or 40,000 skins. Among the skins found in this catch were those of the oldest males and the smallest pups, thus showing, in the judgment of deponent, that every seal of every kind was killed that could be reached. That in consequence thereof the rookeries on these islands were then completely exhausted. Once or twice thereafter they were visited without result, no seals being found, and about five years ago they were again revisited and only 36 skins were obtained. Deponent is informed that all the South Sea skins were obtained by killing seals upon the islands above mentioned, and that it is obviously everywhere much easier to kill seals upon the land than in the water; and in the judgment of the deponent the seals of the above-mentioned islands were thus entirely exterminated because of the entire absence of any protection or of any restriction of any kind whatever upon the number, age, or sex of seals killed, and not merely, as deponent understands has been claimed by some authorities, because they were killed on land instead of in the open sea, which, moreover, in that locality, deponent is informed, is practically impossible by reason of the roughness of the sea and weather.

South Sea skins.
South Shetland Islands, South Georgia Islands, and Sandwich Land.
No restriction on killing.

Extirmination.

(B) A considerable number of seal skins were formerly obtained upon the Falkland Islands; how many deponent is not able to state.

Falkland Islands.

(C) That a certain number of seals were also caught at Cape Horn, and that more or less are still taken in that vicinity, though the whole number has been very greatly reduced.

Cape Horn seals.

(D) That at the present time and for many years last past the skins coming to the market and which are known to commerce have come from the following sources:

Present skins of commerce.

1. And by far the most important are the northern Pacific skins, which are known to the trade under the following titles:

The "Alaska" catch, which are the skins of seals caught on the Pribilof Islands, situated in Bering Sea. For many years past the whole of the skins caught upon these islands have been sold by deponent's firm, and a statement of the number of skins so sold in each year is appended hereto and marked Exhibit A, showing the aggregate of such skins sold from the year 1870 to the year 1891, inclusive, as 1,877,977.

Alaska skins.

Statistics of, from 1870 to 1891.

The "Copper" catch, being the skins of seals caught upon what are known as the Commander Islands, being the islands known as Copper and Bering Islands. All the skins

Copper skins.

so caught have been sold by deponent's firm in the city of London, and the total number of such "Copper" catch from the year 1872 to 1892 appears upon the statement which is hereto annexed and marked Exhibit B, showing the total so sold during such years of 768,096 skins.

The "Northwest" catch, being the skins of seals caught in the open sea either of the Pacific Ocean or of the Bering Sea. These skins were originally caught exclusively by the Indians and by residents of the colony of Victoria and along the coast of the British possessions. A statement of the total number of the catch from the year 1868 to 1884, inclusive, is appended hereto and marked Exhibit C, showing a total of 153,348. That statement is divided into three heads: First, the salted "Northwest" coast skins; second, the dried "Northwest" coast skins, both of which were mainly sold through deponent's firm in London; and third, salted "Northwest" coast skins, dressed and dyed in London, but not sold there. It will be noticed that in the years 1871 and 1872 an unusually large proportion of dried skins appear to have been marketed. Those skins were purchased in this year from the Russian American Company, which was the lessee of the Russian Government on the Pribilof Islands prior to the cession of Russian America to the United States. Those skins had been accumulated by the Russian Company and sold when the Americans took possession. For the years 1871 and 1872, therefore, the surplus skins over the average for the other years should be rejected in a computation of the general average of seals killed during the years from 1868 to 1884, inclusive.

From the year 1885 to the year 1891 the number of skins included in the "Northwest" catch enormously increased, and a statement of such skins is hereto annexed and marked Exhibit D, showing a total of 331,962, and is divided, like the statement marked Exhibit C, into three heads: The salted Northwest coast skins, the dry Northwest coast skins, and the salted skins dressed and dyed in London, but not sold there. The majority of the first two classes were, as in the previous case, sold by deponent's firm. The great majority of these skins appearing in the last-mentioned statement are the skins caught by vessels sent out from the Canadian Provinces; many also by vessels sent out from San Francisco, Port Townsend, and Seattle; and a few from vessels sent out from Yokohama; the majority, however, are supposed to have been caught by vessels sent out from British harbors. A large number of the skins included in Exhibit D have been consigned to C. M. Lampson & Co., by the firm of Herman Liebes & Co., of San Francisco. In estimating the total number of the "northwest" catch it should also be mentioned that something like 30,000 skins belonging to that catch have been dressed and dyed in the United States, which have not gone to London at all.

(E) Besides the "Alaska," "Copper," and "Northwest" skins there are also a certain number of skins arriving in London, known as the Lobos Island skins, although the same are not handled by the firm of C. M. Lampson & Co.; but the total number of which, from the year 1872 to the year 1891, inclusive, is, as appears from the catalogues of sales, 247,777. The Lobos Island skins are those of seals killed on the Lobos Island, belonging to the Republic of Uruguay; and deponent is informed and believes that there is no open sea sealing in the vicinity of such island, and that the animals are protected on the island

as they are on the Russian and Pribilof Islands, by prohibition from the killing of females and limiting the number of males killed in each year. A statement of the seals killed on Lobos Island is hereto annexed and marked Exhibit E, from which it appears that there is a regular annual supply obtained from that source, which shows no diminution.

(F) There are also a certain number of skins sold in London, obtained from rookeries at or near the Cape of Good Hope, the exact number of which deponent is not able to state, but which, he is informed, shows a steady yield. Cape of Good Hope skins.

The statements marked A, B, C, D, and E, herewith appended, have been carefully prepared by me personally, and the figures therein stated have been compiled by me from the several sale catalogues of C. M. Lampson & Co. and others from my private books which I had kept during all the years covered by the statements, and I am sure that those statements are substantially accurate and truly state the respective numbers of the skins caught and sold which they purport to state. Source of information.

Third. The great majority of the skins sold from the Northwest catch are the skins of female seals. Deponent is not able to state exactly what proportion of such skins are the skins of females, but estimates it to be at least 85 per cent, and the skins of females are readily distinguishable from those of the males by reason of the fact that on the breast and on the belly of the bearing female there is comparatively little fur, whereas on the skins of the male seals the fur is evenly distributed; and also by reason of the fact that the female seal has a narrow head and the male seal a broad head and neck; and the skins of this catch are also distinguishable from the "Alaska" and "Copper" catch by reason of the fact that the seals are killed by bullets or buckshot, or speared, and not, as on the Pribilof and Commander Islands, by clubs. Marks of such bullets or buckshot or spears are clearly discernible in the skins, and there is a marked difference in the commercial value of the female skins and of the male skins. This fact, that the Northwest skins are so largely the skins of females, is further evidenced by the fact that in many of the early sales of such skins they are classified in deponent's books as the skins of "females." 85 per cent of Northwest catch females.

Fourth. Deponent further says that in his judgment the absolute prohibition of pelagic sealing, *i. e.*, the killing of seals in the open sea, whether in the North Pacific or the Bering Sea is necessary to the preservation of the seal herds now surviving, by reason of the fact that most of the females so killed are heavy with young, and that necessarily the increase of the species is diminished by their killing. And further, from the fact that a large number of females are killed in the Bering Sea while on the search for food after the birth of their young, and that in consequence thereof the pups die for want of nourishment. Deponent has no personal knowledge of the truth of this statement, but he has information in respect of the same from persons who have been on the Pribilof Islands, and he believes the same to be true. Deponent further says that this opinion is based upon the assumption that the present restriction imposed by Russia and the United States on the killing of seals in their respective islands are to be maintained, otherwise it would be necessary to impose such restrictions as well as to prohibit pelagic sealing in order to preserve the herds. Difference between Northwest skins and Alaska and Copper.

Prohibition necessary.

Fifth. Deponent is further of the opinion, from his long observation and handling of the skins of the several catches that the skins of the Alaska and Copper catches are readily distinguishable from each other and that the herds from which such skins are obtained do not in fact intermingle with each other, because the skins classified under the head of Copper catch are not found among the consignments of skins received from the Alaska catch, and *vice versa*.

Sixth. Deponent further says that the distinction between the skins of the several catches is so marked that in his judgment he would, for instance, have had no difficulty had there been included among 100,000 skins in the Alaska catch, 1,000 skins of the Copper catch in distinguishing the 1,000 Copper skins and separating them from the 99,000 Alaska skins, or that any other person with equal or less experience in the handling of skins would be equally able to distinguish them. And in the same way deponent thinks from his own personal experience in handling skins that he would have no difficulty whatever in separating the skins of the Northwest catch from the skins of the Alaska catch by reason of the fact that they are the skins almost exclusively of females, and also that the fur upon the bearing female seals is much thinner than upon the skin of the male seals; the skin of the animal while pregnant being extended and the fur extended over a large area.

Seventh. Deponent says that the number of persons who are employed in the handling, dressing, dyeing, cutting, and manufacturing of seal skins in the city of London is about 2,000, many of whom are skilled laborers earning as high as £3 or £4 a week. Deponent estimates the amount paid in the city of London for wages in the preparation of fur-seal skins for a manufacturer's uses, and excluding the wages of manufacturers' employes, prior to the beginning of the pelagic sealing in 1885, at about £100,000 per annum; and deponent further says that in his judgment if this pelagic sealing be not prohibited, it is a question of but a few years, probably not more than three, when the industry will cease, by reason of the extermination of the seals in the same way in which they have been exterminated on the South Sea Islands by reason of no restrictions being imposed upon their killing.

ALFRED FRASER.

Subscribed and sworn to before me this 1st day of April, 1892.

EDWIN T. RICE,
Notary Public, New York County.

EXHIBIT A.

Salted Alaska fur-seal sold in London.

Year.	Skins.	Year.	Skins.	Year.	Skins.
1870	9,965	1879	100,036	1888	100,000
1871	100,896	1880	100,161	1889	100,000
1872	96,283	1881	99,921	1890	20,994
1873	101,248	1882	100,100	.....	*4,158
1874	90,150	1883	75,914	1891	13,473
1875	99,634	1884	99,887		
1876	90,267	1885	99,719	Total	1,877,977
1877	75,410	1886	99,910		
1878	99,911	1887	99,940		

* Food skins.

EXHIBIT B.

Salted Copper Island fur-seal sold in London.

Year.	Skins.	Year.	Skins.	Year.	Skins.
1872.....	7, 182	1880.....	38, 885	1888.....	46, 333
1873.....	21, 614	1881.....	45, 209	1889.....	47, 416
1874.....	30, 349	1882.....	39, 111	1890.....	95, 486
1875.....	34, 479	1883.....	36, 500	1891.....	17, 025
1876.....	33, 298	1884.....	26, 675	1892.....	30, 678
1877.....	25, 380	1885.....	48, 929	Total.....	768, 096
1878.....	19, 000	1886.....	41, 752		
1879.....	28, 211	1887.....	54, 584		

EXHIBIT C.

Salted Northwest coast fur-seal skins sold in London, prior to pelagic sealing in Bering Sea.

Year.	Skins.	Year.	Skins.	Year.	Skins.
1872.....	1, 029	1877.....	.....	1882.....	11, 727
1873.....	.....	1878.....	264	1883.....	2, 319
1874.....	4, 949	1879.....	12, 212	1884.....	9, 242
1875.....	1, 646	1880.....	8, 939	Total.....	64, 366
1876.....	2, 042	1881.....	9, 997		

Salted Northwest coast fur-seal skins, dressed and dyed in London (but not sold there) taken prior to pelagic sealing in Bering Sea.

Year.	Skins.	Year.	Skins.	Year.	Skins.
1872.....	699	1877.....	772	1882.....	11, 159
1873.....	40	1878.....	2, 434	1883.....	6, 385
1874.....	122	1879.....	2, 397	1884.....	10, 115
1875.....	578	1880.....	4, 562	Total.....	46, 215
1876.....	1, 062	1881.....	5, 890		

Dry northwest coast fur-seal skins sold in London prior to pelagic sealing in Bering Sea.

Year.	Skins.	Year.	Skins.	Year.	Skins.
1868.....	2, 141	1874.....	2, 772	1880.....	.....
1869.....	1, 671	1875.....	1, 351	1881.....	686
1870.....	1, 684	1876.....	993	1882.....	321
1871.....	12, 495	1877.....	1, 173	1883.....	390
1872.....	14, 584	1878.....	912	1884.....	785
1873.....	891	1879.....	918	Total.....	42, 767

Of the skins sold in 1871 and 1872 a very large proportion were the accumulation of the Russian American Company and sold by them after the purchase of Alaska by the United States.

RECAPITULATION.

	Year.	Skins.
Salted skins sold in London.....	1872-1884	64, 366
Salted skins dressed and dyed in London.....	1872-1884	40, 215
Dry skins sold in London.....	1868-1884	42, 767
Grand total.....	.....	153, 348

EXHIBIT D.

Dry northwest coast fur-seal skins sold in London after commencement of pelagic sealing in Bering Sea.

Year.	Skins.	Year.	Skins.	Year.	Skins.
1885	1,520	1888	1,252	1891	1,083
1886	979	1889	228	Total	8,604
1887	2,843	1890	699		

Salted northwest coast fur-seal skins dressed and dried in London (but not sold there) taken after the commencement of pelagic sealing in Bering sea.

Year.	Skins.	Year.	Skins.	Year.	Skins.
1885	16,667	1887	3,589	1889	2,017
1886	15,087	1888	1,930	Total	39,290

In addition to above it is estimated that from 25,000 to 30,000 skins have been dressed and dyed in the United States.

E. T. R., Jr.,
Notary Public.

Forward.

Salted northwest coast fur-seal skins sold in London after commencement of pelagic sealing in Bering Sea.

Year.	Skins.	Year.	Skins.	Year.	Skins.
1885	2,078	1889	39,563	1892*	28,298
1886	17,909	1890	38,315	Total	254,068
1887	36,907	1891	54,180		
1888	35,818				

* To date.

RECAPITULATION.

	Year.	Skins.
Dry skins sold in London	1885-1891	8,604
Salted skins, dressed and dyed in London, but not sold there	1885-1889	39,290
Salted skins, dressed and dyed in United States, estimated	1885-1889	30,000
Salted skins sold in London	1885-1892	254,068
Grand total		331,962

EXHIBIT E.

Salted Lobos Island fur-seal sold in London.

Year.	Skins.	Year.	Skins.	Year.	Skins.
1873	6,956	1881	13,569	1889	8,755
1874	8,509	1882	13,200	1890	18,541
1875	8,179	1883	12,861	1891	15,834
1876	11,353	1884	16,258	1892*	4,800
1877	13,066	1885	10,953	Total	247,777
1878	12,301	1886	13,667		
1879	12,295	1887	11,068		
1880	14,865	1888	20,747		

* To date.

Deposition of Alfred Fraser, member of the firm of C. M. Lampson & Co., furriers, London.

GENERAL SEALSKIN INDUSTRY.

STATE OF NEW YORK,

City and County of New York, ss:

Alfred Fraser, being duly sworn, says: I am a member of the firm C. M. Lampson & Co., of London, and the person described in and who verified an affidavit on the 1st day of April, 1892, relating to the fur-seal industry. The tables hereto annexed marked A, B, C, D, E, and F have been prepared by me from the printed catalogues of public auction sales in London of fur-seal skins and also from my private memoranda, and from my knowledge and information of the fur-seal industry I believe them to be correct in every particular. Said tables state all of the salted fur-seal skins of the Alaska, Copper, northwest coast, and Lobos catches, which, according to the said catalogues and memoranda, were sold at public auction in London between the years 1868 and 1891, together with the average price per skin obtained during each of said years for the aforesaid skins.

London trade sales.

Tables showing number of skins sold and prices paid from 1868 to 1891.

ALFRED FRASER.

Sworn to before me this 5th day of July, 1892.

[SEAL.]

FREDK. E. FISHER,
Notary Public, Kings County.

(Certificate filed in New York County.)

EXHIBIT A.

Salted Alaska fur-seal sold in London from 1871 to 1891.

Year.	Skins.	Average price per skin.	Year.	Skins.	Average price per skin.	Year.	Skins.	Average price per skin.
		<i>s. d.</i>			<i>s. d.</i>			<i>s. d.</i>
1870.....	9,965	21 8	1879.....	100,036	84 9	1888.....	100,000	78 0
1871.....	100,896	42 2	1880.....	100,161	91 5	1889.....	100,000	67 0
1872.....	96,283	44 10	1881.....	99,921	79 9	1890.....	20,994	146 0
1873.....	101,248	52 0	1882.....	100,100	53 7	1890.....	4,158	98 6
1874.....	90,150	52 6	1883.....	75,914	82 9	1891.....	13,473	125 0
1875.....	99,634	50 9	1884.....	99,887	51 9			
1876.....	90,267	34 4	1885.....	99,719	57 2	Total ..	1,877,977	
1877.....	75,410	39 11	1886.....	99,910	69 3			
1878.....	99,911	69 2	1887.....	99,940	56 0			

EXHIBIT B.

Salted Copper Island fur-seal sold in London in the years 1870 to 1892.

Year.	Skins.	Average price per skin.	Year.	Skins.	Average price per skin.	Year.	Skins.	Average price per skin.
		<i>s. d.</i>			<i>s. d.</i>			<i>s. d.</i>
1870.....	12,030	18 8	1879.....	28,211	57 6	1888.....	46,333	38 3
1871.....	9,522	21 4	1880.....	38,885	60 0	1889.....	47,416	50 6
1872.....	7,182	33 9	1881.....	45,209	60 0	1890.....	95,486	72 1
1873.....	21,614	36 0	1882.....	39,111	45 6	1891.....	17,025	64 8
1874.....	30,349	40 0	1883.....	36,500	38 3	1892.....	30,678	68 6
1875.....	34,479	41 0	1884.....	26,675	59 0			
1876.....	33,298	24 10	1885.....	48,929	37 0	Total ..	789,648	
1877.....	25,380	26 6	1886.....	41,752	40 0			
1878.....	19,000	38 6	1887.....	54,584	40 0			

EXHIBIT C.

Salted Northwest coast fur-seal skins sold in London prior to pelagic sealing in Bering Sea.

Year.	Skins.	Average price per skin.	Year.	Skins.	Average price per skin.	Year.	Skins.	Average price per skin.
		<i>s. d.</i>			<i>s. d.</i>			<i>s. d.</i>
1872.....	1,029	9 9	1877.....			1882.....	11,717	20 3
1873.....			1878.....	234	42 6	1883.....	2,319	25 10
1874.....	4,949	34 7	1879.....	12,212	53 5	1884.....	9,242	27 2
1875.....	1,646	36 8	1880.....	8,939	57 0			
1876.....	2,042	21 4	1881.....	9,997	31 7	Total ..	64,366	.....

EXHIBIT D.

Salted Northwest coast fur-seal skins sold in London after commencement of pelagic sealing in Bering Sea.

Year.	Skins.	Average price per skin.	Year.	Skins.	Average price per skin.	Year.	Skins.	Average price per skin.
		<i>s. d.</i>			<i>s. d.</i>			<i>s. d.</i>
1885.....	2,078	26 1	1889.....	39,563	39 5	1892*.....	28,298	41 7
1886.....	17,909	28 8	1890.....	38,315	60 10			
1887.....	36,907	50 11	1891.....	54,180	62 0	Total ..	254,068	.....
1888.....	36,818	30 10						

*To March 25.

EXHIBIT E.

Salted Lobos Island fur-seal skins sold in London.

Year.	Skins.	Average price per skin.	Year.	Skins.	Average price per skin.	Year.	Skins.	Average price per skin.
		<i>s. d.</i>			<i>s. d.</i>			<i>s. d.</i>
1873.....	6,956	(*)	1881.....	13,569	31 1	1889.....	8,755	25 0
1874.....	8,509	(*)	1882.....	13,200	16 5	1890.....	18,541	31 9
1875.....	8,179	(*)	1883.....	12,861	19 0	1891.....	15,834	33 11
1876.....	11,353	(*)	1884.....	16,258	14 1	1892†.....	4,800	25 4
1877.....	13,066	14 5	1885.....	10,953	16 0			
1878.....	12,301	35 6	1886.....	13,667	18 6	Total ..	247,777	.....
1879.....	12,295	42 0	1887.....	11,068	17 3			
1880.....	14,865	41 1	1888.....	20,747	20 0			

* Unknown.

† To date.

EXHIBIT F.

Salted Alaska fur-seal skins sold in London in the years 1868 to 1871 taken prior to the leasing of the Pribilof Islands

Year.	Skins.	Average price per skin.	Year.	Skins.	Average price per skin.
		<i>s. d.</i>			<i>s. d.</i>
1868.....	28,220	24 8	1871.....	20,111	20 7
1869.....	121,820	25 0			
1870.....	110,511	20 8	Total ..	280,662	.....

Deposition of Arthur Hirschel, member of the firm of Hirschel & Meyer, furriers, London.

GENERAL SEALSKIN INDUSTRY.

STATE OF NEW YORK,

City and County of New York, ss :

Arthur Hirschel, being duly sworn, says: I am 39 years of age, a British subject, and a resident of London, England. I am and for the past twenty years have been a member of the firm of Hirschel & Meyer, which transacts a general fur business at London, with branch establishments at Paris, Leipzig, Moscow, Shanghai, and elsewhere. About one-tenth part of the firm's business consists in dealing in fur-seal skins, of which about 15,000 are annually bought by it. I am familiar with the character and extent of the fur-seal industry in London, and I believe that the following data relating to it are correct.

A large capital, the amount of which, however, it would be difficult to estimate, is invested in the business of selling raw fur-seal skins. Two firms own large warehouses, and one of them expensive cold-storage vaults, portions of which are used exclusively for the purpose of storing fur-seal skins.

Experience.

Capital and firms employed.

About seven firms are engaged in the dressing and dyeing of seal skins, of which a very much larger amount is done in London than in any other city in the world. In this branch of the fur-seal industry there are invested about £80,000 in permanent plant, which would become entirely useless if the seal-skin industry were to come to an end.

About 12,000 dressed and dyed Alaska fur-seal skins, which may be valued at £5 a skin, are annually manufactured into garments in London, and a very much larger proportion of Copper and Northwest coast skins are so consumed.

Skins made into garments in London.

The seal-skin industry furnishes occupation to workingmen in London as follows: To about 600 dressers and dyers; to about 1,400 cutters, nailers, sewers, and other laborers engaged in manufacturing seal-skin articles. Many of those employed as above are skilled laborers, who, in any other employment, would be but ordinary laborers. Some of them have been engaged in this industry from childhood. In the foregoing no account is taken of the numerous clerks, salesmen, and porters, of whom large numbers owe their means of support to the trade in fur-seal skins.

Workmen employed.

Clerical and other force.

I believe that in round numbers the capital invested in this industry in London amounts to £1,000,000, and that when a full Alaska catch came to market the weekly amount expended in wages in connection with all the catches was about £2,500 or £3,000 a week.

Capital invested and wages paid in London.

The business of dealing in fur-seal skins has of late entered into a speculative stage, which is doing it much injury. The trade can no longer know with certainty when and in what quantities seal skins will be placed upon the market. To remedy this I am of the opinion that hereafter skins should be taken only from animals of the

Present uncertain condition of the market.

Prohibition necessary.

male sex and upon land, under Government regulations such as have heretofore existed.

ARTHUR HIRSCHER.

Sworn to before me this 21st day of June, 1892.

[SEAL.]

GEORGE KISSINGER, JR.,

Notary Public (No. 99), City and County of New York.

Deposition of Sir George Curtis Lampson, baronet, head of the firm of C. M. Lampson & Co., furriers, London.

GENERAL SEALSKIN INDUSTRY.

Sir George Curtis Lampson, baronet, being duly sworn, doth depose and say:

(1) That he is 58 years of age and a subject of Her Britannic Majesty. That he is the son and successor of the late Sir Curtis Lampson, baronet, who founded the house of C. M. Lampson about the year 1830. That deponent is at the present time the head of the firm of C. M. Lampson & Co., doing business at 64 Queen street, in the city of London. That the business of said firm is that of commission merchants, engaged in selling and in buying on commission fur skins of various kinds. That his

Experience.

said firm now handle and for many years last past have handled a greater number of skins of fur-seals than all the other firms in the world put together, and that he has a general knowledge of the character of the business of buying and selling fur-seal skins. That his partner, Mr. Emil Teichmann, has a more detailed and technical knowledge of the business than deponent, and can depose in respect to the technical aspects of the business in more detail and with greater accuracy than deponent would wish to do.

(2) That the way in which the business of the firm of C. M. Lampson & Co. is conducted at the present time in respect to fur-seal skins is briefly as follows:

The firm receives consignments of fur-seal skins from the North American Commercial Company which as deponent is informed has a lease from the United States Government of the right to kill fur-seals on the Pribilof Islands

From whom the firm receives consignments of skins.

in the Bering Sea, from the Russian Seal Skin Company which, as deponent is informed have a lease from the Russian Government of a right to kill fur-seals on the Kommondorski and Roben Islands and large consignments of fur-seal skins are also made to deponent's firm by the firm of Hermann Liebes & Co., of San Francisco, U. S. A. These three mentioned firms or companies are the principal consignees

London trade sales.

of seal skins to the deponent's firm. The consignments when received are duly catalogued and sales at public auction of these skins and of those of any other consignments which there may be are held in the months of January, March, and October. That at such sales there are present in person or by representative all the leading dealers doing business in the city of London and all the

List of buyers.

other markets in the world. The total number of buyers does not average more than fifty, and a list of all the buyers is hereto annexed and marked A. The major part of the skins purchased are, however, purchased by a comparatively small number of firms. Deponent's own firm as the agents of dealers in the United States and Canada are also among the principal buyers.

That down to within one or two years ago the skins so purchased by the principal buyers, or at least a great majority of them, were after such purchase consigned to the firm of C. W. Martin & Sons, by whom they were dressed, and the most of the skins also dyed by them, and having been so dressed and dyed, they are then sent to the dealers and manufacturers of fur clothing in various parts of the world.

C. W. Martin & Sons, dressers and dyers of skins for majority of principal buyers.

(3) That the history of the fur-seal skin business, and the sources of its supply, have been fully and correctly described by deponent's partner, Mr. Emil Teichmann, and deponent was present at the time when the deposition of Mr. Teichmann was dictated to the shorthand writer. The principal present sources of the supply of the seal-skin market are what are known as the Alaska catch, the Copper Islands catch, and what is known as the Northwest catch. As stated by Mr. Teichmann, the skins of these several catches are readily distinguished from each other, and separate sets of forms or patterns are used by deponent's firm in sorting and sizing the skins of the three catches. These differences are emphasized by the fact that the skins of the three catches are of different values and produce in the market different prices.

Present sources of supply of skins.

The skins of the Alaska and Copper Island catch are almost exclusively skins of male seals and the skins of the Northwest capture are in like manner largely the skins of female seals. What is now called the Northwest catch was for many years known as the Victoria catch, and prior to 1884 the skins of this catch came to the London market consigned largely by the firm of Hermann Liebes & Co. to the deponent's firm and averaged for many years about 10,000 or 12,000 skins per year. In 1884 the skins of this catch began to increase largely in number, and the numbers which since that year have arrived in the London market are stated with substantial accuracy upon the lists annexed to the affidavits of my partners Messrs. Fraser & Teichmann.

Alaska and Copper skins.

Northwest, or Victoria, catch.

Increase of Northwest catch in 1884.

(4) Deponent says that what may be described as the fur-skin business has been built up, that is the product, the fur-seal skins, have been made an article of fashion and commerce, and the sales of such skins largely increased, and the methods of dressing and dyeing the same have been perfected almost entirely through the influence and joint endeavors of the Alaska Commercial Company, the North American Commercial Company, the Russian Seal Skin Company, deponent's own firm, and the firm of C. W. Martin & Sons, and their predecessors in the city of London.

Fur-skin business; by whose efforts built up.

That the business at the present time has attained the rank of an important industry, in which there is embarked in the city of London a large amount of capital and upon which there is dependent a large number of workmen and employés. The amount of capital from time to time invested in the business is correctly stated, deponent believes, by Mr. Teichmann, at as much as £1,000,000, and until within a year or two the numbers of persons depending upon the industry for their support has likewise been correctly stated by Mr. Teichmann, approximately at 2,000 persons, receiving on an average a weekly wage of 30 shillings, and most of them having families dependent upon their labors for their support.

Present extent of business.

Capital invested and wages paid in London.

During the last two years the diminution and irregularity of the supply of fur and seal skins has caused some decrease in the amount of persons engaged in the industry, but deponent is not able to state exactly to what extent such decrease has taken place.

A considerable number of the persons employed in this business, as deponent is informed, are not skilled in any other kind of business, and should the fur-seal industry cease, deponent believes that these persons would be obliged to master some other trade or means of livelihood.

That one of the most important, and deponent feels justified in saying, vital elements in the maintenance and preservation of the business or industry is that the supply of fur-seal skins should be regular and constant so that intending buyers may be able to know beforehand approximately what the prices of their stock in trade are going to be, and that the people engaged in the business may have beforehand a reasonably definite notion of what they shall be able to count upon.

(5) Deponent has no doubt but that it is necessary in order to maintain the industry that steps should be taken to preserve the existence of the seal herd in the North Pacific Ocean and Bering Sea from the fate which has overtaken the herds in the South Seas. Of the steps, if any, which are necessary, in order to accomplish this result, deponent does not feel that he is in a position to state as he has no personal knowledge of the regulations which at the present time exist, but it is obvious to deponent's mind that regulations of some kind imposed by somebody who has authority and power to enforce them are necessary to prevent the rookeries in the North Pacific Ocean from suffering the fate of the rookeries in the Southern Atlantic and Pacific seas, where deponent is informed no restrictions were at any time even attempted to be imposed.

GEORGE C. LAMPSON.

Sworn at 64 Queen street, in the city of London, England, this 23d day of April, 1892, before me,

FRANCIS W. FRIGOUT,
*Vice and Deputy Consul-General of the
United States of America at London, England.*

BUYERS OF FUR-SEAL SKINS.

LONDON.

Allhansen & Co.
Apfel Brothers.
Bevington & Morris.
Blatspiel, Stamp & Heacock.
Borras, R., & Sons.
Creamer, J. H., & Co.
Dixon & Co., H.
Ensor, Weber & Co.
Eysoldt & Co.
Friedeberry, H.
Felsenstein Bros.
Hand, J.
Hirschell & Meyer.
Hoffman & Thaw.
Howell, J., & Co.
Ince, T. H.

International Fur Store.
Marshall, W., & Co.
Martin, C. W., & Sons.
Meyers, J. & H.
Nicholay, J. A., & Son.
Phillips, Politzer & Co.
Poland, P. R., & Son.
Poland, Geo., & Son.
Russ, C.
Smith, Geo., & Sons.
Sugden, C. A., & Co.
Slater & Co.
Ullmann, Jos.
Vyse Sons & Co.
Wotherspoon, D. & J.

PARIS.

Grebert, E., & Grison.
 Handler, N., & Fils.
 Hertz, E., & Co.

Revillon Freres.
 Revillon, S.

LEIPZIG.

Bromberg, M., & Co.
 Dornfeldt, G.

Gaudig & Blum.
 Konigewerther, H. M.

This is the paper writing marked A referred to in the affidavit of George Curtis Lampson, sworn before me this 23d day of April, 1892.

FRANCIS W. FRIGOUT,
Vice and Deputy Consul-General, U. S. A., London, England.

Deposition of Walter Edward Martin, head of the firm of C. W. Martin & Sons, furriers, London.

GENERAL SEALSKIN INDUSTRY.

Walter Edward Martin, being duly sworn, doth depose as follows:

First. That he is 40 years of age, a subject of Her Britannic Majesty, and lives in the city of St. Albans, and carries on business at 4 Lambeth Hill, in the city of London; that he is the head of the firm of C. W. Martin & Sons, who are the successors of the firm of Martin & Teichmann, which firm was composed of deponent's father, C. W. Martin, and Emil Teichmann, who is now a member of the firm of C. M. Lampson & Co., of the city of London; that the said firm of C. W. Martin & Sons is engaged in the business of dressing and dyeing furs of all kinds; that they have until the last year and have for many years last past dressed and dyed a larger number of skins of the fur-seal than all the other firms in the world together; that deponent has made no examination of the books of his firm for the purpose of seeing precisely the number of skins annually dressed and dyed by his said firm and its predecessor, but it is the fact that his said firm in one year dressed 150,000 fur-seal skins, and of that number dyed 130,000, and it is also the fact that until within the last two years his firm dressed upwards of 110,000 or 120,000 skins in each year, and dyed upwards of 100,000 skins so dressed.

That deponent has been in the business of dressing and dyeing fur-seal skins about twenty-two years; that he has personally handled many hundreds of thousands of such skins, and that he has a detailed and specific knowledge of the character of the various sorts of seal skins and of the markets therefor, and that he has also a general knowledge of the history of the seal-skin business during the whole of that period.

Second. That the first seal skins of which deponent has any knowledge arriving in the London market were consigned by a Russian company to the firm of J. M. Oppenheim & Co., the business of which firm, so far in as it related to the dressing and dyeing of fur-seal skins, was subsequently taken over by the firm of Martin & Teichmann. That the fur-seal skin business was greatly developed about the year 1870 through the efforts of C. M. Lampson & Co.; that about that time the firm of J. M. Oppenheim & Co. found great difficulties in getting the skins properly unhaired, dressed, and

Experience.

Beginning of the industry.

Development of in industry.

dyed, which difficulties culminated in a strike of their operatives about the year 1873, the result of which was that the firm of Martin & Teichmann took over that portion of the business of Messrs. Oppenheim & Co. connected with the dressing and dyeing of fur-seal skins as aforesaid and began a system of education of their own operatives, and that from that time until within a year ago the business of dressing and dyeing skins has been practically controlled by the firms of Martin & Teichmann & Co. and C. W. Martin & Sons, and has become an established and important industry, in which a large amount of capital is invested and a large number of persons employed.

The firm of C. W. Martin & Sons has employed until the last two years 500 persons, and employ at the present moment about 460 persons, most of whom are skilled laborers, receiving on an average at least 30 shillings a week, and most of whom have families dependent upon them for their support. Deponent estimates that the total number of persons employed directly or indirectly in the business of dressing, dyeing, handling, and cutting fur-seal skins up to within the last two years in the city of London was about 2,000.

Third. That the business is carried on in the city of London, briefly, as follows: Messrs. C. M. Lampson & Co., and during the last two years one or two other firms, advertised the annual sales of fur-seal skins, of which very much the largest number are advertised and sold by C. M. Lampson & Co. That at such sales merchants and furriers from all over the world are present or represented, and make their purchases of fur-seal skins for the ensuing season. After the sales the skins purchased are delivered by the purchasers to my firm and others for dressing and dyeing.

Most of the seal skins dressed by my firm are likewise entrusted to us to be dyed, but some of the merchants, notably Revillon Frères, of Paris, have the skins which have been dressed for them by us dyed in France, and this is true of one or two other firms, although Revillon Frères are the principal firm who so do. This makes the number of furs dressed by us larger than the number dyed.

Fourth. Deponent knows of his own knowledge and from conversations with the merchants and dealers above mentioned that it is a matter of vital importance to the continuance of the of fur-seal industry and the industries resulting therefrom and dependent thereon that the supply of fur-seal skins should be constant; that is, that the number of skins coming upon the market in each year should be known the year beforehand with approximate certainty, and that it should not vary greatly from year to year. That this is necessary in order that prices may be fixed and that those persons or firms who physically deal with the skins, such as deponent's firm, should know what provision they must make for the business of the ensuing season. That down to within a few years last past, three or five years, the supply has been regular, but that during the last three or five years, and notably during the last two years, the supply has fluctuated very largely and continually diminished and in consequence thereof business has greatly suffered.

Fifth. That the skins which have come to the London market within the last few years have been principally what are known as the Alaska catch, the Copper Island catch and the Northwest catch. Small supplies are also

Persons employed
and wages paid by
his firm.

Persons employed
in London.

Dressing and dyeing
of skins.

Necessity of a con-
stant supply.

Supply regular to
within the past three
or five years.

Sources of supply.
Alaska, Copper Is-
land and Northwest
catches.

obtained from the Lobos Islands, Cape Horn, and Australasia, but the skins got from last three mentioned localities play an inconsiderable part in the business. That the great majority of the skins coming into the market are known as the Alaska, the Copper Island, and the Northwest skins. The skins belonging to these several catches are catalogued separately, sold separately, and are of different values and necessarily, therefore, bring different prices in the market.

Lobos Island, Cape Horn and Australasia skins.

Sixth. That the differences between these several classes of skins are so marked as to enable any person skilled in the business to readily distinguish one from the other. An essential point of difference between the skins of the Northwest catch and the skins of the Alaska and Copper Island catches consists in the fact that most of the Northwest skins are the skins of the female seal, while the Copper and Alaska skins are of the male seal. Deponent has made no computation or examination which would enable him

Difference between the several catches.

Northwest skins mostly those of females, say 75 to 80 per cent.

to say specifically what proportion of the Northwest catch are the skins of the female seal, but it is the fact that the great majority, deponent would say 75 to 80 per cent, of the skins of this catch are the skins of the female animal. The skins of the male seal and of the female seal may be as readily distinguished as the skins of the different sexes of any other animal. The skins of the female seal, for instance, show the marks of the breast and the fur upon the belly is thinner, and the whole of the fur is also finer, lower in pile; that is, the fibers composing the fur are shorter than in the case of the male seal. Another means of distinguishing the female skins from the skins of the male lies in the fact that the skins of the female are narrower at the head and tail and are proportionately wider in the belly than the skins of the male seal.

How female skins are distinguished.

Another means of distinguishing the seals of the Northwest catch from the skins of the Copper Island and Alaska catches consists in the fact that nearly all the skins of this catch have holes in them, which deponent understands is caused by the fact that the seals from which they are taken have been shot or speared in the open sea, and not, as is the case with the seals from which the skins of Copper Island and Alaska catches are taken and killed, with clubs upon land. The difference between the Copper Island catch and the Alaska catch are marked and enable any one experienced in handling skins to distinguish the one from the other. The Copper Island skins show that the animal is narrower

Another way of distinguishing Copper Island and Alaska skins from those of Northwest.

Difference between Copper Island and Alaska skins.

in the neck and at the tail than the Alaska seal and the fur is shorter, particularly under the flippers, and the hair has a yellower tinge than have the hairs of the Alaska seals, so that before the skins are dressed the two may be readily distinguished from each other, and while deponent has made no such attempt he believes that it would be reasonable to say that if 1,000 Copper Island skins were mingled among 99,000 Alaska skins it would be possible for any one skilled in the business to extract 950 out of the 1,000 Copper Island skins and to separate them from the 99,050 of the Alaska catch, and *vice versa*. Both the Copper Island skins and the Alaska skins are the skins of male seals almost exclusively, although occasionally female skins are found among the Copper Island catch and less often among the Alaska catch.

Seventh. Deponent says that the preservation of the seal herds found in the northern Pacific region is necessary to the continuance of the fur-seal business, as those herds are the principal sources of supply of seal skins left in the world; and from his general knowledge of the customs of that business deponent feels justified in expressing the opinion that stringent regulations of some kind are necessary in order to prevent those herds from disappearing like the herds which formerly existed in large numbers off the South Pacific seas. Specifically what regulations are necessary deponent does not feel himself in a position to state.

WALTER MARTIN.

Sworn at No. 4 Lambeth Hill, in the city of London, England, this 23d day of April, 1892, before me.

FRANCIS W. FRIGOUT,
*Vice and Deputy Consul-General of the
 United States of America at London, England.*

Deposition of Henry Poland, head of the firm of P. R. Poland & Son, furriers, London.

GENERAL SEALSKIN INDUSTRY. PELAGIC SEALING.

Mr. Henry Poland, being duly sworn, doth depose and say: That he is 40 years of age and a subject of her Britannic majesty; that he is the head of the firm of P. R. Poland & Son doing business at 110 Queen Victoria street, in the city of London, and has been engaged in that business twenty-one years; that the said firm of P. R. Poland & Son are doing business as fur and skin merchants, and have been engaged in that business for over one hundred years, having been founded by deponent's great-grandfather in the year 1785, and having been continued without interruption since that date from father to son; that for many years last past deponent's said firm have been in the habit of buying large numbers of fur-seal skins, in fact ever since skins of that character have become an article of commerce, both on their own account and on commission for other persons resident in the United States and Canada and elsewhere; that by reason of having purchased so many skins deponent has a general and substantial knowledge of the history of the fur-seal skin business, and of the character and kinds of fur-seal skins coming upon the London market; that from about the year 1879 down to the present time the principal fur-seal skins coming to the London market have been what are known as the Alaska catch, being the skins of fur-seals killed upon the Pribilof Islands, in the Bering Sea, the Copper Islands catch being the skins of fur seals killed upon the Kommandorski and Roben islands of Russia, and what are known as the Northwest catch. Until within two or three years ago a very considerable number of skins also arrived on the London market, amounting perhaps to several thousand annually, which were known as Japanese skins.

That the three classes of skins above mentioned are easily distinguishable from each other by any person skilled in the business or accustomed to handling skins in the raw state. Skins distinguishable. That deponent has personally handled the samples of the skins dealt in by this firm, and would himself have no difficulty in distinguishing the skins of the Copper Island catch from the skins of the Alaska and Northwest catch, by reason of the fact that in the raw state the Copper Island skins have a lighter color and the fur is rather shorter in pile and of an inferior quality. The skins of each of the three classes have different values and command different prices in the market. Both the Copper Island skins and the Alaska skins are almost exclusively the skins of male seals, and the difference between the skin of a male seal and a female seal of adult age can be as readily seen as between the skins of different sexes of other animals. That the Northwest skins are, in turn, distinguishable from the Copper Island and Alaska skins, first, by reason of the fact that a very large proportion of the adult skins are obviously the skins of female animals; second, because they are all pierced with the spear or harpoon or shot, in consequence of being killed in open sea, and not, as in the case of Copper Island and Alaska skins, being killed upon land by clubs; third, because the Northwest skins are cured upon vessels by the crews of which they are killed, upon which there are not the same facilities for flaying or salting the skins as there are upon land, where the Copper and Alaska skins are flayed and salted.

Northwest skins mostly females.

Pierced with shot.

The Japanese skins, which I think are now included in the Northwest catch, are distinguishable from the other skins of the Northwest catch by being yellower in color, having a much shorter pile, because they are salted with fine salt, and have plenty of blubber on the pelt. That the skins purchased by deponent's firm are handed over by it to what are called dressers and dyers, for the purpose of being dressed and dyed. Japanese skins. The principal dressers and dyers of the city of London at the present time are C. W. Martin & Co. and George Rice and skins are also dressed and dyed by other persons. The fur-seal business has attained very considerable dimensions in the city of London, large amounts of capital being invested therein, and probably in and about the city of London there are employed in the fur-seal skin business as many as 3,000 persons, most of whom are skilled hands, some of whom receive as high as £3 or £4 a week, and many if not most of whom have families dependent upon them for support. Process of manufacture. Large London capital. Labor employed. That the maintenance of this business necessarily depends upon the preservation of the seal herds frequenting the northern Pacific regions from being overtaken by the destruction which was the fate of the seals formerly found in large quantities in the South Atlantic and South Pacific Oceans.

Protection necessary.

That deponent is not in a position, by reason of possessing expert knowledge or personal acquaintance of killing seals, to pronounce a positive opinion as to what steps are necessary, if any, to accomplish this result, but he would suppose it reasonable to say that a close time, which should be universal in its application, for a specified period in each year, during which the killing of seals should be entirely prohibited, and the imposition of heavy penalties, say a fine of £1,000, for any violation of the regulations pro-

Close season.

viding for such close time, would be effective to preserve the herds referred to; and deponent would, under any circumstances, increase the zone around the islands containing the rookeries, within which sealing should be absolutely prohibited, to a distance of 50 miles in every direction from the shore.

HENRY POLAND.

Sworn at 110 Queen Victoria street, in the city of London, England, this 23 day of April, 1892, before me.

FRANCIS W. FRIGOUT,
Vice and Deputy Consul-General of the
United States of America at London, England.

Deposition of George Rice, furrier, London, England.

GENERAL SEALSKIN INDUSTRY. PELAGIC SEALING.

George Rice, being duly sworn, doth depose and say: That he is 50 years of age, and a subject of Her Britannic Majesty. That he is engaged in the business of dressing and dyeing furs of various kinds in the city of London, at 32, 33, and 40 Great Prescott street, in the said city, and at Stratford, which is a suburb of London. That he has been engaged in the fur business, and principally in the business of handling fur-seal skins, for twenty-seven years last past. That eleven years ago he established his present business of dressing and dyeing furs. That during the eleven years since the establishment of his present business he has handled and dyed large quantities of fur-seal skins, and has during those years and prior thereto personally handled hundreds of thousands of fur-seal skins, and that in the year 1891 he dyed upwards of 90,000 fur-seal skins. That by reason of his experience in his business he has a general and detailed knowledge of the different kinds of fur-seal skins and of the differences which distinguish them, as well as the history, character, and manner of conducting the fur-seal skin business in the city of London, which is briefly as follows:

The skins are consigned by the persons who take them in the fishing grounds to various firms, the principal of which are C. M. Lampson & Co., and Culverwell & Brooks, by whom the skins are catalogued and advertised for the sales, which are held in October, January, or March in each year by Goad, Rigg & Co., as brokers for C. M. Lampson & Co., and by Culverwell & Brooks on their own account.

These sales are attended by merchants and buyers from all over the world, who are present either personally or by proxy, and having made their purchases at such sales, the skins are transferred by them to the dressers and dyers. That for many years last past the skins arriving in the market have been principally what are known

as, first, the Alaska skins, which are the skins of seals killed upon the Pribilof Islands in the Bering Sea; second, what are called the Copper Island skins, which are the skins of seals killed on the Russian islands in the Bering Sea; and third, what are called the Northwest catch, which are the skins of seals killed in the north part of the Pacific Ocean, or in the Bering Sea. A large proportion of the Northwest catch of skins have passed

through deponent's hands for some years last past, and last year he handled nearly the whole of the Northwest catch.

Besides those three last-mentioned classes, the Alaska, Copper, and Northwest, a certain number of sealskins also come to the London market from southern waters, notably Lobos Island and Cape Horn, but the skins from these localities are relatively much less important than the skins of the Northern Pacific regions.

Southern skins.

That the difference between the several classes of skins are very marked, and enable anybody who is skilled in the business or accustomed to handling of fur sealskins to distinguish the skins of one class from the skins which belong to either of the other two classes and these differences are evidenced by the fact that the skins obtain different prices in the market.

Classes distinguishable.

That the differences between the skins of the adult male seals and the adult female seals are as marked as the differences between the skins of the two sexes of other animals, and that in the Northwest catch from 85 to 90 per cent of the skins are of the female animal.

Northwest catch, females.

Deponent does not mean to state that these figures are mathematically accurate, but they are, in his judgment, approximately exact.

The difference between the Copper Island catch and the Northwest and Alaska catches, which two last-mentioned classes of skins of the fur-seal apparently belong to the same family, are such as to enable any person skilled in the business to distinguish the Coppers from the Northwest and Alaska skins, or what I may call the Bering Sea sealskins, but the manner in which the skins are distinguished is difficult to describe to any person not accustomed to handling skins. The difference again between the Alaska and Northwest catches, although as deponent has said they are of the same general family, are yet very marked by reason of the difference of the color of the hair, the length of the wool, which is, of course, perceptible mainly upon examination of the pelts and of the fact that the female skins show the marks of the breast.

The differences between the three classes of skins above mentioned are so marked that the skins belonging to the three catches have always, since deponent had any knowledge of the business, commanded, and do now command, different prices in the markets, for instance, the Alaska skins of the last year's catch fetched about 125s. per skin; the Copper skins of the last year's catch fetched 68s. 6d. per skin, and the Northwest skins of the last year's catch fetched about 55s. per skin.

Prices.

Among the skins classed as the Northwest catch there have for the last few years been included a considerable number of skins which deponent says he thinks were formerly called Japanese skins, which are distinguished from the remaining Northwest and Alaska skins by reason of the different color of the skins in the raw state. This difference in color is so distinct as to be practically unmistakable.

Japanese skins.

That the business of handling and dealing in fur-seal skins has become, in the city of London, an established and important industry. That deponent himself, for instance, employs at the present time from 400 to 500 laborers, who are mostly engaged in one way or another upon fur-seal skins, many of whom are skilled workmen receiving good wages, and many of them having families dependent upon them for their support. Deponent estimates the total number of

London sealskin industry.

Labor employed.

people engaged in the business of handling, dyeing, dressing, and treating fur-seal skins up to the time the skins pass into the hands of the furriers at about 2,000. In addition to the number so employed, a much larger number of furriers, employés, and the employés of the retail merchants are concerned directly or indirectly in handling or manufacturing the fur-seal skin or fur-seal skin garments.

Deponent further says that a large amount of capital is in one way or another invested in the city of London in the business above enumerated.

That the continuance of the fur-seal business depends, in deponent's judgment, obviously upon the continued existence of the fur-seal herds from which the skins are derived

That the question of the preservation of the fur-seal herd has, of course, engaged deponent's attention and he has kept as close a watch on it as he was able to do without being on the ground. In regard to what might be done

to preserve the herd deponent does not feel that he knows all the facts, and in consequence thereof it is difficult for him to express an opinion as to the manner in which the seal herds ought to be preserved or what regulations ought to be imposed for that purpose, but judging from the fact that for many years 100,000 seals were caught upon the Pribilof Islands without injury to the herds resorting to the rookeries on those islands, it is fair to conclude that unless some other cause intervened to diminish those herds killing that number of seals upon the islands would not have been detrimental to the herd.

If it is the fact, as has been stated, that the herds have now been diminished since the killing of female seals upon the sea began, as to which deponent has no knowledge, he should say that it would at least be reasonable to prohibit the killing of seals absolutely within the area which may be described as the feeding grounds around the island.

GEO. RICE.

Sworn at the consulate-general of the United States of America at London, England, this 15th day of June, 1892, before me.

[SEAL.]

FRANCIS W. FRIGOUT,
Vice and Deputy Consul-General
of the United States of America at London, England.

Deposition of William Charles Blatspiel Stamp, furrier, London.

GENERAL SEALSKIN INDUSTRY. PELAGIC SEALING.

William Charles Blatspiel Stamp, being duly sworn, doth depose and say: That he is 51 years of age, and a subject of Her Britannic Majesty, and is engaged in business at 38 Knight-riding street, London, E. C., as a fur and skin merchant. That he has been engaged in that business for upwards of thirty years, and has been in the habit of purchasing fur-seal skins during the whole of the time that he has been in business. That he has personally handled many thousands of such fur-seal skins and he has inspected the samples at practically every sale of fur skins made in London during the whole of the time he has been in business, and in consequence of these facts and of his knowledge of the fur-seal skin business

he has a general and detailed knowledge of the history of the business of dealing in fur-seal skins in the city of London, and of the character and differences which distinguish the several kinds of skins coming on the market. That for many years last past the fur-seal skins coming on the London market have been known as, first, the Alaska catch, which are the skins of seals killed upon the Pribilof Islands situated in the Bering Sea; second, the Copper Island catch, which are the skins of seals killed on the Kommondorski and Robben Islands in the Russian waters. The Robben Island skins were formerly separated from the Kommondorski Islands and were of inferior quality, and it is only within the last eight or ten years that the Robben Island skins, which are inconsiderable in number, have been presumably mingled with the skins of seals caught on the Copper Islands and included in the term "Copper catch;" third, the Northwest catch, which are skins of seals killed in the open Pacific or Bering Sea.

Different species.

Northwest catch.

That the skins of these several catches are readily distinguished from each other, and the skins of the different sexes may be as readily distinguished from each other as the skins of the different sexes of any other animal. I should estimate the proportion of female skins included within the Northwest catch at at least 75 per cent, and I should not be surprised nor feel inclined to contradict an estimate of upwards of 90 per cent. My sorter, who actually handles the skins, estimates the number of female skins in the Northwest catch at 90 per cent.

Skins distinguishable.

Mostly females taken.

One means of distinguishing the skins of the Northwest catch from those of the other catches is the fact that they are pierced with shot or spear holes, having been killed in the open sea, and not as in the case of the Copper and Alaska catches, killed upon land, with clubs.

Northwest skins pierced with shot.

The differences between the Copper and Alaska skins are difficult to describe so that they can be understood by any person who has no practical knowledge of furs, but to anyone skilled in the business there are apparent differences in color between the Copper and Alaska skins, and a difference in the length and qualities of the hairs which compose the fur, and there are also apparent slight differences in the shape of the skins.

The differences between the skins of the three catches are so marked that they have always been expressed in the different prices obtained for the skins. I have attended the sales for many years, and am able to make this statement from my own knowledge. The average prices obtained at the sales of the last year's catch, for instance, were as follows: For the Alaska skins, 125 shillings per skin; for the Copper skins, 68 shillings per skin; and for the Northwest skins, 53 shillings per skin.

Prices of different skins.

That the skins purchased by the deponent are purchased on his own account and on account of others resident in Canada and the United States and the Continent, and he believes it is a fact that he is the largest commission merchant in the fur business.

That the skins so purchased are consigned to various dressers and dyers, the principal of whom are the firm of C. W. Martin & Sons and George Rice, and deponent himself is the landlord of a factory worked by Frederick Smith & Co., which is the oldest firm of dyers of fur-seal skins, and of late years they have also become dressers.

London firms.

That the fur-seal skin business had become an important industry in the city of London in which a large amount of capital was invested and a large number of workmen employed, amounting, including the dressers, dyers, handlers, and persons employed in the manufactories of the furriers, to about 3,000. It is difficult to make any correct estimate of the number of people so employed, but deponent says that he has recently had occasion to look into the question in his capacity as master of the Skinners' Company and he believes the above figure to be substantially correct.

That a large number of persons so employed are skilled laborers and most of them have families dependent upon their labors for their support. The wages paid in some cases are as high as £3 or £4 a week, and perhaps the average wages of the whole number may be safely estimated at £1 per week. That many of these persons know no other business than that in which they are at present engaged.

That the continual existence of the fur-seal business is dependent, in deponent's judgment, upon the preservation of the seal herds frequenting the Northern Pacific regions, and it is also a most important element in the industry that the supply of seal skins coming to the market each year should be regular and constant.

That deponent further says that some regulations are necessary for the preservation of the seal herds frequenting the Northern Pacific region, because it is a well known fact that in the absence of any such regulations the seal herds which were formerly found in the South Atlantic and Pacific Seas have been practically exterminated.

On the Lobos Islands and in New Zealand governmental regulations exist, and I am told, although I know nothing about it, that regulations of some kind have been made in the colony of the Cape of Good Hope.

W. C. F. STAMP.

Sworn at the Skinners' Hall, Dowgate Hill, in the city of London, England, this 14th day of June, 1892, before me.

[SEAL.]

FRANCIS W. FRIGOUT,

*Vice and Deputy Consul-General of the
United States of America at London, England.*

Deposition of Emil Teichmann, furrier, London.

GENERAL SEALSKIN INDUSTRY.

Emil Teichmann, being duly sworn, doth depose as follows:

First. That he is 46 years of age, a native of the Kingdom of Wurtemberg, and is now a naturalized subject of Her Britannic Majesty.

That since the age of manhood he has been engaged in the fur business; that from 1866 to 1868, inclusive, he resided in America in that business, and since 1868 he has resided in England and done business in the city of London, and is now and has continually been during all these years engaged in one way or another in the fur business. That he is now a member of the firm of C. M. Lampson & Co., and has been a member of such firm for the period of twelve years last past. That prior to the time he became a member of such firm and from the years

1873 to 1880 he was a member of the firm of Martin & Teichmann, who were then, and its successors C. W. Martin & Sons still are, the largest dressers and dyers of seal skins in the world.

That the firm of C. M. Lampson & Co., of which deponent has been as aforesaid for the last twelve years a member, are what is known as commission merchants engaged in the business of selling furs of various kinds and also in buying furs upon commission.

That the said firm of C. M. Lampson & Co. has, during the time that deponent has been a member thereof, handled a larger number of skins of the fur seal than all the other firms in the world together, and deponent knows from inspection of the books of his said firm that for many years prior to the date when he became a member of the same they also handled during many years previously thereto a larger number of fur seal skins than all the other firms in the world together.

That during the time deponent has been a member of the said firm he has personally handled many hundreds of thousands of fur-seal skins, and he has a detailed and expert knowledge of the various kinds of seal skins, and the several differences between them which enable the several sorts of seal skins to be distinguished from each other.

Second. Deponent says from his general knowledge of the business inspection of the catalogues of sales of C. M. Lampson & Co., and from the information derived from his predecessors in the firm, the chief of whom was the late Sir Curtis Lampson, who founded the house about sixty years ago, that fur-seal skins were formerly obtained

South Sea sealing.

in large numbers in the South Pacific and Atlantic seas upon the San Juan Fernandez and Falkland Islands, upon Sandwich Island, South Shetland Island, Desolation Island, Goughs Island, and Kerguelan and Massafuero Islands, and at Cape Horn.

There were also in former years a considerable number of skins obtained from Russian possessions in the North Pacific Ocean through the medium of a Russian company, as hereinafter stated.

Russian sealskins.

The history of the Southern Atlantic and Pacific seal business shows that at the localities above enumerated, and principally on South Shetland and the Kerguelan Islands, there must have been very large numbers of seals. The principal market for the skins of such Southern Pacific and Atlantic seals was, as deponent is informed, found in the Chinese ports, and deponent has been informed and understands that in consequence of the indiscriminate and universal killing of seals in the localities above mentioned, where no restrictions of any kind were then or are imposed upon the killing of seals at any time without regard to age or sex, the seal rookeries in those localities were after a few years of such killing practically exhausted.

Extermination of South Sea seals.

That about twenty years ago the South Shetland Islands were again visited, and for two or three years there were obtained from these islands a considerable number of skins, amounting in the aggregate to perhaps 50,000 skins. At the end of a three years' catch of skins it was reported that the rookeries were again exhausted, and the islands were not again visited for several years, not until five years ago, when deponent understands that a vessel was sent to those islands by the firm of C. A. Williams & Co., of New London, United States of America, and that that vessel was only able to obtain 39 skins.

Seals of South Shetland Islands.

Rookeries exhausted.

The time during which deponent has been in the business the skins from all of the above-mentioned localities have been practically infinitesimal in number.

Third. That for many years last past the skins of fur-seals actually coming into the markets of the world have been derived from the following sources:

I. *The Lobos Islands skins*, which are the skins of seals caught upon the islands of that name, situated off the River Platte and belonging to the Republic of Uruguay. These skins are consigned by the persons having the contract to take them with the Republic of Uruguay to Boulcher, Mortimer & Co., of London, by whom they are sold through Goad, Rigg & Co., and catalogues of the last-mentioned firm are published and have been inspected by deponent from time to time as published. The total number of skins derived from this source, as appears from an inspection of such catalogues, are during the years 1873 and 1892 inclusive set forth accurately in the paper which is annexed hereto and marked Exhibit A.

II. *Cape Horn skins*.—Prior to the year 1876 a small number of skins are supposed to have been obtained from this locality. They are not classified in our books or catalogues, nor in the books of any other persons or firms, so that they can not now, from examining the books and catalogues, be readily identified or separated from skins coming from other southern localities, but from the year 1876 down to the present time they have been so classified, and a large number have been sold by deponent's firm. A statement of the skins obtained from Cape Horn is hereto appended and marked Exhibit B. The number of skins derived from this locality, as appears by that statement, fluctuated very largely in number, and I am informed that the reason for such fluctuation is that the seals from which the skins are obtained are killed mostly upon land, and that the weather in that part of the world is so severe that it is at times impossible to effect a landing upon or near the rookeries. So far as deponent knows, there is no protection of any kind for seals at Cape Horn other than that which is afforded by the difficulty of landing in order to kill the seals, in consequence of the heavy weather.

III. *Cape of Good Hope skins*.—From this locality a small but steady number of skins have been obtained during many years last past. These skins are not consigned to deponent's firm, but to other persons in London whose catalogues are published, and have been examined from time to time by deponent; and deponent is informed and believes from such examination of catalogues that the number of skins obtained from this source have been for the last few years about 5,000 per annum.

Deponent understands that the seals from which these skins are obtained are likewise killed mostly upon land, and he is also informed that some regulations for the protection of seal life at the Cape of Good Hope by regulating the killing of seals in that colony of the Cape of Good Hope have been established by the Government of the said colony, but what those regulations are, if any such exist, deponent is not in a position to state.

In addition to the supplies from the above-mentioned sources, from 1,000 to 2,000 skins are obtained annually in Australasia, which includes New Zealand.

IV. The principal sources of supply for the market at the present time, and for many years last past, are the following:

(a) What are known as the Alaska catch, which are the skins of male seals, killed upon St. Pauls and St. Georges Islands in the Bering Sea. Alaska catch.

(b) The Copper catch which come from the seals killed upon the Russian islands of Copper and Bering, called the Commander Islands, which are located in the Russian part of Bering Sea, and also the Robben Island, in the Okhotsk Sea, all which are also the skins of male seals. Copper catch.

(c) The Northwest catch. These are the skins of seals caught in the open North Pacific and Bering Sea.

Fourth. The history of the sealskin fishery coming from the Northern Pacific regions is briefly as follows:

In the early part of the century a Russian company Northern Pacific skins. was formed which obtained from the Russian Government a right to kill seals, both upon the Commander and Pribilof Islands, and in and around the Bering Sea. Up to the year 1853 about 20,000 skins were annually received in London from the company in the parchment state. By the parchment state, I mean skins which were dried with the top or water hair left on. They were not, in consequence of this method of preservation by drying, in a condition to be unhaired, and they were after having been dressed in London largely returned to the Russian markets.

In the year 1853 a trial shipment of salted skins was made to J. M. Oppenheim & Co., in London, in pursuance, as deponent is informed, of suggestions theretofore sent out by Messrs. Oppenheim that an attempt should be made to salt the skins, but owing to the defective curing this shipment was a failure. By degrees, however, the curing by means of salting was improved, and in 1858 a contract was made by the Russian American Company to ship to Messrs. J. M. Oppenheim & Co. an annual supply of from 10,000 to 12,000 skins delivered in London at 10s. 10d. a skin. The quantity was increased in 1864 to 20,000 skins. This contract remained in force until the Alaska Territory became the property of the United States. In addition to the salted skins covered by the contract last referred to, Messrs. Oppenheim & Co. also received during these years about 10,000 skins from the Russian American Company per annum, which were dried in the old-fashioned way and not salted.

Deponent was connected with the firm of Messrs. J. M. Oppenheim & Co., at New York and London, from the years 1866 to 1872 inclusive, and his late partner, Mr. Martin, and himself ultimately succeeded to the business of Messrs. J. M. Oppenheim, so far as it related to the dressing and dyeing of seal skins.

Upon the cession of Alaska to the United States there was indiscriminate seal-killing upon the Pribilof Islands for the season of 1869-70. About the end of that season the Alaska Commercial Company was formed at San Francisco, as deponent is Alaska Commercial Company. informed, by citizens of the United States for the purpose of obtaining a lease from the United States of the right to kill seals on the Pribilof Islands.

This company did obtain from the United States an exclusive license to kill seals on the Pribilof Islands in the Bering Sea for a period of twenty years, under certain restrictions and regulations, which were, as deponent is informed, set forth in the contract between that company and the United States and in extracts of Congress in relation thereto, and in regulations of the Treasury Department of the United States made in pursuance of such extracts of Congress.

A year or two thereafter Messrs. Hutchinson, Kohl, Philippeus & Co., of San Francisco, which, as deponent is informed, was a firm formed by persons controlling the Alaska Commercial Company, obtained a lease from the Russian Government giving them the exclusive right to kill seals upon Komandorski and Robben Islands.

That in 1890 the Alaska Commercial Company, as deponent was informed, did not secure a renewal of the lease which they had theretofore enjoyed from the United States, but a similar lease was granted by the United States to the North American Commercial Company, which is a separate corporation and is controlled by different people from the Alaska Commercial Company.

Fifth. From the year 1870 down to the present time deponent's firm have received and handled from the Alaska Commercial Company and from Messrs. Hutchinson, Kohl, Philippeus & Co., from the North American Commercial Company, and the Russian Seal Skin Company, of St. Petersburg, which company have now succeeded to the lease of the Komandorski and Robben Islands formerly enjoyed by Hutchinson, Kohl, Philippeus & Co., all the skins of seals which have been killed upon the Pribilof Islands and upon the Copper Islands. They have also received at least three-fourths of the skins included in what is called the Northwest catch until the year 1891, when the major part of the skins of the catch were consigned to Messrs. Culverwell, Brooks & Co., of London. A large number of the skins of this catch, amounting in one year to 40,000 a year, have been consigned to deponent's firm by the firm Hermann Liebes & Co., of San Francisco.

The total number of skins of the Northwest catch received by deponent's firm during the years 1872 and 1892, inclusive, are set forth with accuracy in an affidavit made by my partner, Alfred Fraser, in New York, a copy of which, dated April 1, and acknowledged E. T. Rice, notary public, has been received by me from him and I annex hereto a copy of the lists of Northwest skins attached to Mr. Fraser's affidavit, making the same a part of this deposition, and mark the same Exhibit C. I also append hereto as a part of this deposition copies of the lists attached to the affidavits of Mr. Fraser of Alaska skins sold in London by my firm during the years 1870 to 1892, inclusive, and to the Copper Island skins sold by my firm in London during the years 1872 to 1892, inclusive, and mark the same respectively Exhibits D and E, and I refer to the affidavit of Mr. Fraser above mentioned for an explanation of all said lists and adopt the same explanation given by him as my own. I have carefully verified the figures contained in these latter and find them to be as accurate as any such statement can be made.

Sixth. The skins of the Alaska and Copper catches are readily distinguished from each other and command different prices in the market, and I should have no difficulty and would undertake from my knowledge of the various skins to separate Copper skins from Alaska skins should they ever be found mingled together, as, however, they are not. The Alaska and Copper skins are distinguishable from each other partly by means of the different color. The Copper Island skins generally have a darker top hair and are more yellow on the cheeks than the Alaska skins. Perhaps a surer means of distinguishing the two is the difference in shape. The Copper Island skins are much narrower at the head than the Alaska skins, and this difference is very marked. In our warehouses we have a different set of frames for the sizing out of the Copper skins from those we use for the Alaska skins. Another difference

Skins from islands
of United States and
Russia.

Northwest catch.

Skins distinguish-
able.

quite as important as the shape is that the fur upon Copper Island skins is considerably shorter on the flanks and towards the tail than is the fur of the Alaska skins. All of these differences are so marked, as I have before stated, as to enable any expert, or one familiar with the handling of skins, to readily distinguish Copper from Alaska skins, or *vice versa*, but it is true in the case of very young animals the differences are much less marked than in the case of the adult animal. We receive practically no skins of very young animals from Alaska, but we do receive at times a certain number of the skins of the young animals from Copper. All the skins of both the Copper and Alaska catches are the skins of the male animals.

Seventh. The skins of the Northwest catch are in turn readily distinguishable from the skins of the Alaska as well as the Copper catch. The differences which I have enumerated between the Copper and Alaska skins are accentuated in distinguishing the skins of the Northwest catch from the skins of the Copper catches, and we use a separate set of frames or patterns in our business for the Northwest skins from what we use for the Copper or Alaska skins. Among what are classed by us as Northwest skins are included what are sometimes called Japanese skins, which are the skins of seals killed on the northern Asiatic coasts. These skins come upon the market generally by way of Japan, but sometimes by way of San Francisco or Victoria.

The number of Japanese skins averages, deponent should say, about 5,000 a year, although there is a good deal of fluctuation in the quantity from year to year, and deponent says that, like the other skins included in the Northwest catch, they are principally the skins of female seals, not easily distinguishable from the skins taken from the herds frequenting the eastern part of the Pacific Ocean and Bering Sea, except by reason of their being principally speared instead of shot.

The most essential difference between the Northwest skins, and the Alaska and Copper catches is that the Northwest skins, so far as they are skins of adult seals, are almost exclusively the skins of female seals, and are nearly always pierced with shot, bullet, or spear holes.

The skins of the adult female seal may be as readily distinguishable from the skins of the adult male as the skins of the different sexes of other animals, that practically the whole of the adult Northwest catch seals were the skins of female seals, but the skins of the younger animals included within this Northwest catch, of which we have at times a considerable number, are much more difficult to separate into male and female skins, and I am not prepared to say that I could distinguish the male from the female skins of young animals.

A certain percentage of young animals is found among the consignments received by us at the beginning of each season, which we understand and are informed are the skins of seals caught in the Pacific Ocean off the west coast of America, but a much smaller percentage of such small skins is found among the consignments later in the season, which we are informed are of seals caught in the Bering Sea.

I have been told that it is easier to catch the female seal at sea than it is to catch the male seal, but I have no personal knowledge of that point. I suppose, however, that there must be some foundation for the statement by reason of the fact that so small a proportion of male adult seals are included in what is called the Northwest catch.

Northwest skins.

Japanese skins.

Northwest skins
females, and riddled
with shot.

Fur-seal business. Eighth. Deponent says that what may be termed the fur-seal business has largely been built up by the efforts of the Alaska Commercial Company, the North American Commercial Company, and the firm of C. M. Lampson & Co.

Large amount of English capital in fur-seal business. That it depends to a considerable extent upon making seal skins an article of fashion and of trade and that a very large amount of capital is invested in the Kingdom of Great Britain in the business.

It is, in deponent's judgment, fair to estimate the amount of capital invested in the business in one way or another to have been at times as much as £1,000,000 and that there have been until lately dependent upon this industry, in the city of London, about 2,000

Number of skilled workmen. skilled workmen, most of whom have families dependent upon them for support, and the amount of wages paid to those people deponent estimates on the average at about 30 shillings per week, making an aggregate of £150,000 per annum.

Deponent further says that the continuance of this business depends very largely upon the maintenance of a steady and regular supply of fur-seal skins in order that the trade may be able to calculate with approximate certainty the number of skins which are to be received in each year.

Steady supply of skins desirable. Deponent further says that the maintenance of this business, to his mind, obviously depends upon the preservation of the seal herds resorting to Bering Sea from the destruction which has overtaken the seal herds which were formerly found in the southern regions, and that whatever is necessary to be done to preserving the seal herds in Bering Sea ought to be done; but deponent having no knowledge of the business of killing seals, and having no scientific knowledge on the subject as a naturalist, is not in a position to relate what laws or regulations, in addition to those already existing, are necessary, if any such are necessary, in order to accomplish this desirable result.

EMIL TEICHMANN.

Sworn at 64 Queen street, in the city of London, England, this 25th day of April, 1892, before me.

FRANCIS W. FRIGOUT,
*Vice and Deputy Consul General of the
United States of America at London, England.*

EXHIBIT A.

Salted Lobos Island fur-seals sold in London.

Year.	Skins.	Year.	Skins.	Year.	Skins.
1873.....	6,956	1881.....	13,569	1889.....	8,755
1874.....	8,509	1882.....	13,200	1890.....	18,541
1875.....	8,179	1883.....	12,861	1891.....	15,834
1876.....	11,353	1884.....	16,258	1892 (to date).....	4,800
1877.....	13,066	1885.....	10,953		
1878.....	12,301	1886.....	13,667	Total.....	247,777
1879.....	12,295	1887.....	11,068		
1880.....	14,836	1888.....	20,747		

NEW YORK, March 23, 1892.

This is the paper writing, marked A, referred to in the affidavit of Emil Teichmann, sworn before me this 25th day of April, 1892.

FRANCIS W. FRIGOUT,
Vice and Deputy Consul General, U. S. A., London, England.

EXHIBIT B.

Sales of Cape Horn salted fur-seal skins.

Year.	Skins.	Year.	Skins.	Year.	Skins.
1876.....	6,306	1883.....	4,655	1890.....	2,450
1877.....	7,631	1884.....	6,743	1891.....	3,114
1878.....	8,227	1885.....	3,404	1892 (to date).....	3,966
1879.....	12,180	1886.....	909	Total	113,208
1880.....	17,562	1887.....	2,762		
1881.....	13,164	1888.....	4,403		
1882.....	11,711	1889.....	3,021		

This is the paper writing marked B referred to in the affidavit of Emil Teichmann, sworn before me this 25th day of April, 1892.

FRANCIS W. FRIGOUT,
Vice and Deputy Consul-General, U. S. A., London, England.

EXHIBIT C.

Salted Northwest Coast fur-seal skins sold in London prior to pelagic sealing in Bering Sea.

Year.	Skins.	Year.	Skins.	Year.	Skins.
1872.....	1,020	1877.....	.....	1882.....	11,727
1873.....	.....	1878.....	261	1883.....	2,319
1874.....	4,949	1879.....	12,212	1884.....	9,242
1875.....	1,646	1880.....	8,939	Total	64,366
1876.....	2,042	1881.....	9,997		

Salted Northwest Coast fur-seal skins, dressed and dyed in London (but not sold there) taken prior to pelagic sealing in Bering Sea.

Year.	Skins.	Year.	Skins.	Year.	Skins.
1872.....	699	1877.....	772	1882.....	11,159
1873.....	40	1878.....	2,434	1883.....	6,385
1874.....	122	1879.....	2,397	1884.....	10,115
1875.....	578	1880.....	4,562	Total	46,215
1876.....	1,062	1881.....	5,890		

Dry Northwest Coast fur-seal skins sold in London prior to pelagic sealing in Bering Sea.

Year.	Skins.	Year.	Skins.	Year.	Skins.
1868.....	2,141	1875.....	1,351	1882.....	321
1869.....	1,671	1876.....	993	1883.....	390
1870.....	684	1877.....	1,173	1884.....	785
1871.....	12,495	1878.....	912	Total	42,767
1872.....	14,584	1879.....	918		
1873.....	891	1880.....	.....	
1874.....	2,772	1881.....	686		

Of the skins sold in 1871 and 1872 a very large proportion were the accumulation of the Russian American Company and sold by them after the purchase of Alaska by the United States.

RECAPITULATION.

Salted skins sold in London, 1872-1884	64,366
Salted skins dressed and dyed in London, 1872-1884	46,215
Dry skins sold in London, 1868-1884	42,767

Grand total 153,348

E. T. R. J.,
Notary Public.

NEW YORK, March 30, 1892.

EXHIBIT C.

Dry Northwest Coast fur-seal skins sold in London after the commencement of pelagic sealing in Bering Sea.

Year.	Skins.	Year.	Skins.
1885.....	1,520	1890.....	699
1886.....	979	1891.....	1,083
1887.....	2,843		
1888.....	1,252	Total	8,694
1889.....	228		

Salted Northwest Coast fur-seal skins dressed and dyed in London (but not sold there) taken after commencement of pelagic sealing in Bering Sea.

Year.	Skins.	Year.	Skins.
1885.....	16,667	1889.....	2,017
1886.....	15,087		
1887.....	3,589	Total	39,290
1888.....	1,930		

In addition to the above it is estimated that from 25,000 to 30,000 skins have been dressed and dyed in the United States.

E. T. R. J.,
Notary Public.

Salted Northwest Coast fur-seal skins sold in London after commencement of pelagic sealing in Bering Sea.

Year.	Skins.	Year.	Skins.	Year.	Skins.
1885.....	2,078	1889.....	39,563	1892 (to date)	*28,298
1886.....	17,909	1890.....	38,315		
1887.....	36,907	1891.....	54,180		254,068
1888.....	36,818				

* Of catch of 1891.

RECAPITULATION.

Dry skins sold in London, 1885-1891	8,604
Salted skins dressed and dyed in London, but not sold there, 1885-1888....	39,290
Salted skins dressed and dyed in the United States, estimated, 1885-1889, say	30,000
Salted skins sold in London, 1885-1892	254,068

Grand total..... 331,962

E. T. R. J.,
Notary Public.

NEW YORK, March 30, 1892.

This is the paper writing marked C referred to in the affidavit of Emil Teichmann, sworn before me this 25th day of April, 1892.

FRANCIS W. FRIGOUT,
Vice and Deputy Consul-General, U. S. A., London, England.

EXHIBIT D.

Salted Alaska fur-seal sold in London.

Catch.	Skins.	Catch.	Skins.	Catch.	Skins.
1870.....	9,965	1879.....	100,036	1888.....	100,000
1871.....	100,896	1880.....	100,161	1889.....	100,000
1872.....	96,283	1881.....	99,921	1890.....	20,994
1873.....	101,248	1882.....	100,100	1890.....	4,158
1874.....	90,150	1883.....	75,914	1891.....	13,473
1875.....	99,634	1884.....	99,887		
1876.....	90,267	1885.....	99,719	Total.....	1,877,977
1877.....	75,410	1886.....	99,910		
1878.....	99,911	1887.....	99,940		

NEW YORK, *March 23, 1892.*

This is the paper marked D, referred to in the affidavit of Emil Teichman, sworn before me this 25th day of April, 1892.

FRANCIS W. FRIGOUT,
Vice and Deputy Consul General, U. S. A., London, England.

EXHIBIT E.

Salted Copper Island fur-seal sold in London.

Year.	Skins.	Year.	Skins.	Year.	Skins.
1872.	7, 182	1883.	38, 885	1888.	46, 333
1873.	21, 614	1881.	45, 209	1889.	47, 416
1874.	30, 349	1882.	39, 111	1890.	95, 486
1875.	34, 479	1883.	36, 500	1891.	17, 025
1876.	33, 298	1884.	26, 675	1892.	60, 678
1877.	25, 380	1885.	48, 929		
1878.	19, 000	1886.	41, 752	Total	768, 096
1879.	28, 211	1887.	54, 584		

NEW YORK, *March 23, 1892.*

This is the paper writing, marked E, referred to in the affidavit of Emil Teichmann, sworn before me this 25th day of April, 1892.

FRANCIS W. FRIGOUT,
Vice and Deputy Consul General, U. S. A., London, England.

Table of percentages of annual sealskin supply compiled from table of London trade sales as given by Emil Teichmann.

[illegible]

*Table of annual sealskin supply compiled from table of London trade sales as given by
Emil Teichmann.*

	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.
Lobos Island.....				6,956	8,507	8,179	11,353	13,066	12,301	12,295
Cape Horn.....							6,306	7,631	18,227	12,180
Northwest coast ..	684	12,495	16,303	931	7,843	3,575	4,097	1,945	3,607	15,527
Alaska catch.....	9,965	100,896	96,283	101,218	90,150	99,634	90,267	75,410	99,911	100,036
Copper catch.....			7,182	21,614	30,349	34,479	33,298	25,380	19,000	28,211
Total	10,649	113,391	119,768	130,749	136,851	145,867	145,321	123,432	143,046	168,249

	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.
Lobos Island.....	14,386	13,569	13,200	12,861	16,258	10,953	13,667	11,068	20,747	8,755
Cape Horn.....	17,562	13,164	11,711	4,655	6,743	3,404	909	2,762	4,403	3,021
Northwest coast ..	13,501	16,573	23,207	9,544	20,142	20,265	33,975	43,339	40,000	41,808
Alaska catch.....	100,161	9,994	100,100	75,914	99,887	99,719	99,910	99,940	100,000	100,000
Copper catch.....	38,885	45,209	39,111	36,500	26,675	48,929	41,752	54,584	46,333	47,416
Total	184,945	188,436	187,329	139,474	169,705	183,270	190,213	211,693	211,483	201,000

TESTIMONY RELATING TO THE GENERAL SEALSKIN INDUSTRY IN FRANCE.

Deposition of Emin Hertz, member of the firm of Emin Hertz & Co., furriers, Paris.

GENERAL SEALSKIN INDUSTRY. PELAGIC SEALING.

CITY OF PARIS,
Republic of France, ss :

Emin Hertz, being duly sworn, deposes and says as follows: That he is 42 years of age and a naturalized citizen of the French Republic; that he lives in the city of Paris, and is a member of the firm of Emin Hertz & Cie.; that he has been engaged in the fur business for eighteen years, during which time he has been in the habit of purchasing sealskins; that he has personally handled many thousands of said fur-seal skins, and that he has a general and detailed knowledge of the history of the business of dealing in fur skins in the city of Paris, and the character and difference which distinguish the several kinds of skins which are on the market. Experience.

That the said firm of Emin Hertz & Cie. has existed for ten years, being the successors of Goetze & Cie., who were established since 1873, trading in furs generally and dealing, ever since the establishment of the firm, in seal skins, undressed, dressed, and dyed; that their business is carried on at 11 Rue Dieu, in said city of Paris.

That there has gradually sprung up a large demand for this article in France, which demand was at its height two years ago, during which year the said firm bought and sold 10,000 skins at the average price of the last ten years. That in consequence of the falling off in the supply of Alaska skins (Pribilof Islands and Bering Sea) two years ago, the price had increased from 50 to 75 per cent, and in consequence, the year after, the demand was affected so that instead of selling more than 10,000 skins the firm scarcely sold 5,000, and a still smaller number this year. Great demand for seal skins in France.

That the total production of sealskins, which during the existence of the concession of the Alaska Company (which concession has now expired) amounted annually to 150,000 skins, is now hardly more than 70,000, coming from Alaska and the Copper Islands; that the consequence is a loss for everyone connected with the trade, for while there was an annual production of 150,000 skins there were, the depo- Recent increase in price. Demand lessened.

Production reduced one-half.

Trading at a loss.

nent estimates, at least from two to three thousand persons engaged in this industry in Europe, and the natural consequence of the production having diminished by about one-half is that only about one-half the number of persons are required in the industry.

Less employment for labor.

That the increased price of sealskins two years ago, caused by the falling off in quantity, has not been maintained although this year there is perhaps even a fewer number of seal skins, which indicates, in the opinion of deponent, that the article when offered at a high price is within the means of only a very few persons and the demand for it will continue to decrease.

Prospect of diminishing demand.

That the trade has every interest to bring about a regular production, that is to say, the production to be approximately always the same, as this would obviate the frequent change in price and render business less speculative.

Steady production desirable.

That the said firm generally buys its sealskins at the London auctions in their undressed state, and has them dressed in London and dyed partly in London and partly in Paris.

Sealskins bought in London. Partly dyed in Paris.

That the said firm can distinguish very readily the source of production of the skins when the latter are in their undressed state; that for several years besides the skins of the regular companies, such as the Alaska Company (American concessionaire) and the Copper Company (Russian concessionaire) the said firm has bought quantities of skins called Northwest coast, Victoria, etc. That these skins are those of animals caught in the open sea by persons who apparently derive therefrom large profits, and nearly three-quarters of them are those of females and pups, these probably being less difficult to take than the males; that these animals are taken by being shot.

Sealskins easily distinguishable.

Three-quarters of pelagic catch females and pups.

That the seals taken by the Alaska and Copper companies are males, the destruction of which is much less prejudicial to the preservation of the race, and which furnish the best skins, these being finer and more furnished with down; that they are killed on the islands with clubs. That every animal killed by ball or shot bears the traces of such slaughter, which marks greatly depreciate the value of the skin.

Destruction of males less prejudicial. Better skins.

Of less value if pierced with shot.

That the said firm has often been informed that in order to capture one animal the persons engaged in the chase are frequently obliged to kill or wound three or four. That under these circumstances and in consequence of the destruction of the females, there is no doubt in the mind of deponent that the race is in great danger of being exterminated, to the profit of a few individuals and to the detriment of an important industry which up to the present has supplied the means of livelihood to thousands of persons in Europe and America.

Waste of life.

Danger of extermination.

That the said firm believes it to be everyone's interest that the countries interested in the question (America and Russia) should take measures to safeguard their rights from the point of view of the capture of the seals, and that if not, if this pursuit in the open sea continues as in the past two years, the said firm firmly believes that in a short time the seal will exist only as a souvenir and will be completely exterminated.

Protective measures necessary.

That this industry, which has produced during twenty years nearly 25,000,000 of francs annually, will have disappeared, owing to this cause, to the detriment of a very great number of persons.

Great value of industry to France.

EMIN HERTZ.

Sworn before me this 23d day of June, 1892.

[SEAL.]

AUGUSTUS JAY,
*Second Secretary of the Legation of the
 United States at Paris, France.*

Depositor of Léon Révillon, member of the firm of Révillon Frères, furriers, Paris.

GENERAL SEALSKIN INDUSTRY. PARIS MARKET. PELAGIC SEALING

CITY OF PARIS,
Republic of France, ss:

Léon Révillon, being duly sworn, doth depose and say as follows: That he is 49 years of age and a citizen of the French Republic, and lives in the city of Paris, and carries on business at No. 79 Rue de Rivoli, in the said city, and is a member of the firm of Révillon Frères, which firm is composed of Theodore Révillon, Léon Révillon, and Anatole Révillon.

That the said firm of Révillon Frères is engaged in the business of buying, dyeing, and selling sealskins; that they have been engaged in the said business for upward of twenty years, and the said deponent has been in the habit of purchasing fur-seal skins during the whole of that time; that he has personally handled many thousands of said fur-seal skins and that he has a general and detailed knowledge of the history of the business of dealing in fur-seal skins in the city of Paris, and the character and difference which distinguish the several kinds of skins which come on the market.

Experience.

That the said firm of Révillon Frères have bought during the last twenty years upwards of 400,000 sealskins; that nearly all of these skins have been dressed in London, where there are special facilities therefor; that the firm of Révillon Frères have tried several times to dress the skins themselves, but in very small quantities.

Skins dressed in London.

That all the skins bought by the said firm of Révillon Frères are dyed in France, and therefore the skins pass under our eyes in the following conditions: (1) in salt when we buy them in London; (2) dressed; (3) dyed. That deponent believes that the firm of Révillon Frères is by far the largest firm of furriers and fur-dealers in France; that the greater part of the skins bought by Révillon Frères are made up into garments, cloaks and mantles, but that some of the skins after having been dyed are sold to other manufacturers.

Largest dealers in France.

That the sales of sealskins by the said firm of Révillon Frères have amounted for the last twenty years to about 4,000,000 francs per year.

That the number of persons employed by the said firm for the dyeing, scraping, manufacturing, lining, and for the sale of the sealskins, is

about 300, of which the greater part are well paid, on account of their work being upon a very valuable species of merchandise, and that there are about 500 or 600 persons employed in the industry in France, exclusive of salesmen, porters, etc.

Formerly bought only land catch.

That in the years from 1872 to 1877 we bought only Alaska sealskins (that is to say, those from the islands of Pribilof) and the Copper catch, coming from Russia, and a few skins coming from the islands of Lobos and from the South Seas.

Introduction of North west coast skins.

That later on, from the year 1878, we have noticed in the London market sealskins called Victoria or Northwest coast skins, the quantity of which is variable, but which has continually increased until last year, when the total quantity was held at 80,000 skins.

That we have often heard, and from different sources, that these last-named skins are in the majority the skins of the female seal. The thinness of the hair upon the flanks seems

Mostly females.

to confirm this assertion, although it is impossible for us to test the absolute truth of this statement for ourselves, for when the seals have been dressed the signs of the mammals disappear. At any rate the

Female skins less advantageous to business.

Predominance of small skins.

Skins less valuable, because riddled with shot.

employment of these skins is much less advantageous to our business because there is a great predominance of small skins, which are evidently those of young seals which are not killed by the companies which have the concessions for the Alaska and Copper sealskins. Moreover, these Victoria or Northwest coast sealskins are riddled with shot, which very materially depreciates their value, while the seals of both the Alaska and Copper companies are killed by a blow of a club upon the head, which does not at all impair the quality of the skin as regards its ultimate uses.

That the fact that the annual production of Victoria or Northwest coast skins has increased in proportion as the Alaska skins has diminished seems to indicate that if fewer Northwest coast animals had been killed the quantity of Alaska skins would not have diminished.

Diminution of good skins due to pelagic sealing.

That we firmly believe that if the slaughter of the Northwest coast fur-seals is not stopped or regulated, the Alaska fur-seals will disappear entirely, as is the case with the seals of the Shetland Islands, from where hardly a single seal has been received during the last ten years.

If pelagic sealing not stopped, Alaska fur-seals will disappear.

That the annihilation of the seals would be a very great loss for our country, for the fur of the seal can not be replaced by any other. It would also be a great loss for the workmen who are specially trained for the work upon these skins.

Great loss to industry.

LÉON RÉVILLON.

Sworn before me this 26 day of June, 1892.

[SEAL.]

HENRY VIGNAUD,
*Secretary of the Legation of the
United States, at Paris, France.*

TESTIMONY RELATING TO HAIRSEALING IN THE NORTH ATLANTIC

Deposition of James G. Joy, sealer (master).

HAIRSEALING IN NORTH ATLANTIC.

UNITED STATES CONSULATE,
St. Johns, Newfoundland, June 20, 1892.

Personally appeared before me, Thomas N. Molloy, consul of the United States of America for Newfoundland, James Glavine Joy, master mariner of St. Johns aforesaid, who being duly sworn before me upon his oath says:

I have been twenty-four years prosecuting the seal fishery on the coast of Newfoundland, Labrador, and Gulf of St. Lawrence, nine years of which I have commanded a steamer.

Experience.

I am opposed to second trips to the seal fishery, as I consider they are calculated to destroy the species, as all the seals killed on such trips are old and mature seals and at least 75 per cent of them are female seals.

"Second" trips likely to destroy the species.

Seventy-five per cent killed on such trips females.

I am now speaking of harp-seals, they are principally shot on the ice, but when the ice packs they are killed with bats. When shot on open or floating ice a large number of them escape into the water and die from bleeding.

Hunting harp seals.

I should say that for every seal shot and captured three escape wounded, to die in the water. I have seen ten seals on one pan shot and wounded and all escaped. To kill

Waste of life.

and capture the seal, the bullet must lodge in the head; if it strikes any part of the body the seal will manage to get to the edge of the pan and escape into the water. I know from my own knowledge that the number of seals brought in on second trips is yearly decreasing, and that the fishery is being depleted by the prosecution of this trip. Apart from the number of old,

Decrease.

mature, and female seals destroyed, the hunting necessary for their capture prevents the male and female coming together as soon as they otherwise would, and makes the whole species more wary and more difficult to capture each year, so much so that even at a distance of from 4 to 5 miles, the smoke of a steamer blowing over the ice in the direction of the seals will cause them immediately to leave the ice and take to the water.

Keen scent of seals.

On the first trip a good many seals are shot in the water as at that season of the year, the month of March, they are fat and will float, but on the second trip in April they are seldom fired at in the water, for if shot they immediately sink; except you are very close to them and very quick you can not secure one of them.

Difference between hunting on first and second trips.

Hood-seals.

The hood-seals are generally in families, male, female, and young.

Seals have been taken the past seasons on the east coast of Greenland with S. S. G. shot in them; this kind of shot is only used by sealers on the Newfoundland coast.

JAMES G. JOY,
Master Mariner.

Attested.
[SEAL.]

THOS. N. MOLLOY,
United States Consul.

Affidavit of Richard Pike, sealer (master).

HAIRSEALING IN NORTH ATLANTIC.

UNITED STATES CONSULATE,
St. Johns, Newfoundland, June 21, 1892.

Personally appeared before me, Thos. N. Molloy, consul of the United States of America for Newfoundland, Richard Pike, master mariner of St.

Experience.

Johns aforesaid, who being duly sworn before me, upon his oath says: I am a master mariner. I have been engaged in the prosecution of the seal fishery on the coasts of Labrador and Newfoundland for forty-four years, twenty years of which I have been master of a steamer. I can not speak of the percentage

Percentage of seals taken on "second trip."
"Bedlamers" and old "harps" taken.

of seals taken on a "second trip," nor of the sex. Nearly all the seals taken are bedlamers and old harps. The

How sealing is carried on.

"second trip" generally covers the month of April. Nearly all seals taken on the "second trip" are shot on open and floating ice. Very few are shot in the water, for if hit there is very little chance of their capture, as they sink immediately. They are seldom or never

Waste of life.

fired at in the water, for unless they are very close there is very little chance of their being recovered. Fully one-third of the seals shot on the ice are lost, for when wounded they manage to crawl to the edge of the pan and into the water, and when once in the water they sink or die from their wounds.

Seals shot in the water in the month of March can be recovered, as they are fat and in good condition, and float, but in the latter part of April, when shot, they sink immediately. I am strongly against "second trips," as in my opinion they are causing a rapid decline in the industry, likely to lead to the extermination of the species

Opposed to "second trips."

Rapid decrease of seals caused by "second trips."

by the killing of old and mature seals, and the destruction caused by the use of firearms. Some of the men

Habits of harp seal.

resident in the northern harbors, who have been engaged in the actual killing of the seal can give more particular information as to the age and sex of the seals killed. The young harp-seal takes

Batting.

to the water about the 25th of March, but when they "ride" the ice and the ice closes they are killed by batting, that is, when the ice is jammed, and they can not escape into the water.

RICHARD PIKE,
Master Mariner.

Attested.
[SEAL.]

THOS. N. MOLLOY,
United States Consul.

TESTIMONY RELATING TO ANTARCTIC SEALING.

Deposition of James W. Budington, scaler (master).

ANTARCTIC SEALING AND ROOKERIES.

DISTRICT OF COLUMBIA,

City of Washington, ss:

Capt. James W. Budington, being duly sworn, deposes and says: I am 53 years of age, a resident of Groton, Conn., and a master mariner. Since 1871 I have made several Experience. voyages to the southern hemisphere for the purpose of seal hunting, and am thoroughly acquainted with the islands and coasts about Cape Horn and in the southern Atlantic Ocean where fur-seals have been taken. I also studied, as far as I was able, the habits and conditions of the fur-seal of the southern seas.

Patagonia.—The seal rookeries of Patagonia lie along the eastern coast, south of about latitude 42°, and up the western coast to the Gulf of Penas. Formerly these regions Patagonia rookeries in 1881 and 1888-'89. abound in seals, but now there are not enough to pay for the hunting. In 1881 I took 600 seals off the western coast at Pictou opening. In 1888-'89 I again visited the coast, but only obtained 4 skins. Great quantities have been taken from the eastern coast, but at present there are no seals there.

Terra del Fuego and the islands in the vicinity.—These islands were at one time very abundant in seals, and were considered among the best rookeries. I visited them in 1879-'80 and took 5,000 skins. On my last voyage, in 1891-'92, I took only 900, and the majority of these came from another portion of the coast, which had not been worked for twelve or fifteen years. Thousands of skins had formerly been taken from these islands, but the animals are practically extinct there to-day. Rookeries at Terra del Fuego and neighboring islands in 1879-'80, and 1891-'92.

Falkland Islands.—At one time these islands were very abundant in seal life, but excessive and indiscriminate killing has nearly annihilated them; this fact was recognized by the government of the islands, which passed an ordinance in 1881 establishing a close season from October to April for the islands and the seas adjacent thereto. Falkland Islands rookeries nearly depleted.

My understanding of this ordinance was that the Government would seize any vessel taking seals close to or within 15 or 20 miles of the islands. It certainly would not have been allowed to take seals between the Falklands and Beauchene Island, 28 miles distant, which is considered part of the group. I understood this ordinance was passed on the ground that Close season established.

Zone of 15 to 20 miles.

the seal resorting to these islands was the property of the Government and therefore it had a right to protect them everywhere. The Government, however, gave licenses to certain parties at from £80 to £100 a year to take seals during the close season. On account of these

licenses I think

Licenses granted.

take place under these licenses.

South Georgia Island.—This island at one time produced many thousand skins. I visited it in 1874 and got 1,450 skins, but it had been visited five years before, when 800

South Georgia Island rookeries in 1874.

only got 86. I found a new rookery which had not been worked, to my knowledge, and then I got the remainder. In 1875 5

1875.

1892.

Practically extinct.

South Georgia are practically extinct.

South Shetland Islands.—The shores of these islands were once covered with seals, but there are practically none there now. I don't think 100 skins could be taken from there at the present time, while I have known of 1 vessel

South Shetland rookeries practically depleted.

Has known of 1 vessel catching 60,000 seals.

taking 60,000 in a season. Since my experience began, however, the biggest catch was 13,000 by a fleet of 4 vessels; that was in 1871-'72. I was there at that time. The next year we took about 12,000, the fleet consisting of 6 vessels. In 1873-'74 our fleet of 7 vessels took about 5,000. Up to about 1880 from 100 to 200 seals were taken annually from these islands. Since 1880 the rookeries were not worked till 1888-'89. That season I visited the islands and took 39 skins. I again went there this year and took 41.

Sandwich Land.—In 1875-'76 I visited these islands; there were 3 or 4 vessels in the fleet. We searched the southern islands and found nothing. One vessel went to the northern islands and took about 2,000 skins. In 1876-'77 I was

Sandwich Land rookeries. Decrease.

there again, the fleet consisting of 6 vessels. We took altogether about 4,000. The next season some vessels again visited the islands, but did not take 100 seals. In 1880-'81 2 vessels stopped there, but got no skins. From that time until I called there this season they had not been worked. I took 400 skins. Perhaps 200 more could be taken

Practically depleted.

Lobos Islands; seals near.

have seen seals in the water a hundred miles from the islands.

Extirmination.—All these regions are particularly favorable for seal life; the raw, damp atmosphere, absence of sunshine and uninhabited conditions being most advantageous to the existence of the species. All these regions described are uninhabited excepting the Falkland Islands and Terra del Fuego, the latter being inhabited by the Indians, who only visit a few of the inshore rookeries.

Climatic conditions similar to those of the Pribilof Islands.

From hundreds of thousands of seals resorting to these islands and coasts, the numbers have been reduced to a few hundreds, which seek the land in scattered bands and rush to the sea on the approach of man.

Almost exterminated.

Manner of sealing.—When I first began sealing in 1871 these rookeries had not been worked for twenty-five or thirty years, and the seals had had a chance to increase. The seals were then very tame, and were all killed with clubs. So tame were they you could go around among them like you could among cattle, and at one place they wouldn't get out of the way, so had to be knocked in the head in order to make room to set up a tent. Before 1880, however, the seals had become wild from hunting, and we had to use guns, killing them on the rookeries and in the water, wherever we could get at them.

Manner of sealing.

Firearms since 1880.

Waste of life.—We killed everything, old and young, that we could get in gunshot of, excepting the black pups, whose skins were unmarketable, and most all of these died of starvation, having no means of sustenance, or else were killed by a sort of buzzard, when the mother seals, having been destroyed, were unable to protect them longer. So too these birds ate the carcasses of the dead pups and little traces were to be found of the bodies. The seals in all these localities have been destroyed entirely by this indiscriminate killing of old and young, male and female. If the seals in these regions had been protected and only a certain number of "dogs" (young male seals unable to hold their positions on the beaches) allowed to be killed, these islands and coasts would be again populous with seal life. The seals would certainly not have decreased and would have produced an annual supply of skins for all times.

Waste of life.

Starvation of pups.

As it is, however, seals in the Antarctic regions are practically extinct, and I have given up the business as being unprofitable. The whole annual catch for 7 vessels has not exceeded 2,600 skins for the last four years.

Antarctic seals practically extinct.

Habits.—The "wigs" (the old male seals) are the first seals to arrive on the rookeries; coming about the middle of October. They fight for advantageous places on the beaches and never leave their positions after once being established. The females or "clap-matches" come a month later and are captured by the "wigs" who get as many as they can take care of. We never killed the seals until the females had arrived. When I first went to these regions a "pod" or family consisted of a "wig" and 12 or 15 "clap-matches," but this year everything was disorganized and not more than 2 or 3 seals were together; sometimes there being 1 "clap-match" and 2 "wigs." There were in 1891 about as many "wigs" as "clap-matches." This equality of numbers of the sexes on the rookeries is unnatural, as the seals are polygamous. The cause of the great falling off in the number of "clap-matches" is we used to kill a dozen females to one male, and so not only the males are in excess but the species has been destroyed by killing the producers. The pups are born on the rookeries and are unable to swim till six or eight weeks of age. If one gets washed off the rocks before that time it is drowned. A pup born in the water or on the kelp would certainly perish. I don't think a pup is weaned till he is four months old. I am also convinced that copulation takes place on land before

"Wigs" [bulls].

"Clap-matches" [cows].

"Pods" [harems].

Females principally killed.

Pups.

Pelagic birth unnatural.

they migrate; the period of gestation being about eleven months. The seals leave the rookeries in March when ice begins to form around the islands and the snow commences to fall. The Terra del Fuego and

Patagonian seals however never leave the rookeries or the waters in the vicinity, only going out into the inland waters in search of food. About Terra del Fuego no ice forms and no snow falls that remains. The temperature remains about the same summer and winter. I think if ice formed there and there was much change in the temperature the seals would migrate northward to warmer waters. Seals always go back to the same rookery after a migration and generally endeavor to get the same position on a beach.

In all these localities the sky is constantly overcast, the sun never shines for more than an hour or two at a time, and around the more southern islands fogs are very prevalent. The temperature is always cold and damp, being about 40° F. during the summer.

Killing seals without reference to age or sex is bound to exterminate the species in a very short time, and it seems to me that unless something is done in the northern sealing grounds the industry will soon be as unprofitable as it is in the Southern Hemisphere.

Subscribed and sworn to before me, a notary public in and for the District of Columbia, this 5th day of May, 1892.

J. W. BUDINGTON.

[L. S.]

SEVELLON A. BROWN.

Deposition of George Comer, sealer (mate).

ANTARCTIC SEALING.

DISTRICT OF COLUMBIA,

City of Washington, ss:

George Comer, being duly sworn, deposes and says: I am 34 years of age, and a resident of East Haddam, Conn. Since 1879 I have been engaged in sealing in the Southern Hemisphere and was out every year except two seasons up to 1889. I visited on these voyages Cape Horn, South Georgia, the Islands of Tristan d'Acunha, Goughs Island, the Crozets and Kerguelen islands. I have observed the habits of the seals frequenting these localities, and I spent fourteen consecutive months on one island, called by us West Cliff, located on the coast of Chile, about a hundred miles north of the straits of Magellan. On that cruise

Tierra del Fuego and coasts of Patagonia and Chile. we were three years away from home, all of which time was spent about Terra del Fuego and the coasts of Patagonia and Chile. During these three years (1879 to 1882) our catch was 4,000 seals, 2,000 of which were taken the first year, and we practically cleaned the rookeries out. In 1885 to 1886, I visited South Georgia as mate of a vessel. We had heard reports of the number of seals formerly taken there, but we did not get a seal, and only saw one. In 1887, while I was on Goughs Island, the vessel went over to South Georgia and took 3 seals. In the summer of 1887 we put six men on Goughs Island, and then went to the Crozets and Kerguelen Island, commonly called Desolation Island. On our return, nine months after, the gang had taken

South Georgia.

Goughs Island.

Crozet and Kerguelen Islands.

Desolation Island.

about 40 or 50 skins. Years before the English had had the working of Goughs Island, and had run the business out, so there were practically no seal there. We put a gang on the Crozets, expecting to do well. They staid there five months and took three seals.

The English at Cape Town had recommended us to go there, because they said that formerly they had taken a great number of skins there. We went to Kerguelen Island, and there I had charge of the sealing. We staid about four months, and took 18 seals. Prior to this visit I had spent five months at Kerguelen Island, and we then took 6 seals; that was in the winter of 1883 and 1884. About 1850 this island was visited by an American, who practically cleaned off the seals. The captain I shipped with, Joseph Fuller, visited the island in 1880 and took 3,600 seals, practically all there were; and this was the increase for the thirty years from 1850. While I was at Cape Town I saw a gang start out for sealing on that coast;

Cape of Good Hope.

the rookeries I understood to be about 25 miles from Cape Town. They are in the possession or control of a company, as I was then informed, which has the exclusive right to take seals there. We did not dare to go to those rookeries, because sealing was prohibited, and we would not have been allowed to take them in the waters adjacent thereto.

Argentina also claimed possession of Staten Land at Cape Horn, and since about 1882 or 1883 we have not

Staten Land.

been allowed to take seals at that point or in the waters near there, although the citizens of Argentina themselves have taken seals there every year, as I understand and believe. In the first part of a season we never disturbed the rookeries we

Manner of hunting.

visited, always letting the seals come on shore; then we would kill them on land with clubs or rifles. During the latter part of a season the seals become very wild, and we used to shoot them in the water from boats. When we shoot them in the water we lose certainly three out of five we kill by sinking, and we also wounded a great many more. Shooting seals in the water is the most destructive method of taking them as compared with the number of skins we have to show for our work.

Waste of life.

The shores occupied by all these rookeries I have mentioned are of much the same character; there is a narrow beach line from which cliffs rise abruptly to the height of 75 to 150 feet; through these are narrow crevasses

Character of shores and climate of islands.

in the rocks or small ravines, where streams flow into the sea; it is at such points the seals are to be found. The animals clamber up these rocks, often going where it is impossible for man to go. The climate of these localities is peculiar. The sky is constantly overcast, and during the summer the average temperature would be between 40° and 45° F. Rain falls nearly every day, keeping the atmosphere constantly moist, but no hard storms take place, the rain falling in misty showers. During the fourteen months I passed at West Cliff, heretofore mentioned, I had an excellent opportunity to examine and study the seals which frequent that coast. Along the coasts and islands near Cape Horn snow does not fall to any extent, and never remains for any length of time. No ice forms along the shore. There is very little difference in the temperature of winter and summer. The seals inhabiting these shores do not migrate, but always remain

Habits of the seals.

on or near the land, only going a short distance in search of food, and at all seasons and in every month of the year seals can be found on shore. Toward the latter part of October the "wigs," or full-grown males, begin to congregate on the breeding rookeries. A "wig" weighs anywhere from 250 to 500 pounds,

"Wigs."

and must be four or five years old before he has strength and endurance enough to maintain a place on the rookery.

The battles for position between the rival "wigs" are most fierce, but at last they all get their places, and await the coming of the "clap matches," or females. About the 10th of November the females begin to arrive, and land on the breeding rookeries. Each "wig" gets about him as many "clap matches" as he can, the average number, I should say, being from ten to twenty. The "wig" never allows the "clap match" to leave his harem for some time, always seizing her and dragging her back if she attempts to go into the water. Almost immediately on landing the female drops her pup, it seldom being more than a day after they come on shore. A "clap

Pups.

match" gives birth to only one pup, except in rare instances, when she has two. I never saw but one case where a "clapmatch" had more than one pup at a birth. Within a few days after the birth of the pup the "clap match" is served by the "wig." After being served the "wig" lets her go into the water to feed, as she has to do in order that she may nurse her pup. The pup when born weighs about four or five pounds, and is covered with shiny black hair, beneath which there is no fur. When four or five months old this black hair is shed, and new hair of a brownish-gray color comes out, and the fur appears beneath it. A pup does not go into the water until he is three or four months old, and then he works in gradually from the puddles into the surf, and I have seen "clap matches" in stormy weather pick up their pups in their mouths and carry them out of reach of the waves. A pup born in the water or on a bed of

Pups not born in water or on kelp.

kelp would certainly be drowned, and during all my experience I never saw a black pup seal on kelp or in the water. Until the pup sheds his black hair he is entirely dependent on his mothers' milk for sustenance.

I have never seen a "clap match" suckling more than one pup, and it is my impression that a "clap match" would not nurse any pup except her own, for I have seen her throw other pups aside and pick out one particular one from the whole number on the rookery. A black pup walks on all fours, raising his body more from the ground than an older seal, and appears to be more of a land animal than his elders. All seals can move very rapidly on land when forced to do so, and seem to have remarkable powers of land locomotion when the formation of their flippers and body are taken into consideration. The young "wigs" or nonbreeding males, not being allowed on the rookeries, herd by themselves, and never molest the harems. About the 20th of November we used to begin killing, and up to that time the "wigs" had never left their positions to feed or drink. I do not know how much longer they would have staid there fasting if we had not molested them. Young "wigs" go into the water, but during the breeding season hang around the rookeries, never going far from shore. If there had been strict regulations enforced, allowing us to kill only young "wigs," and not to disturb the breeding seals, I am convinced, and have no doubt, that all these rookeries would be full of seals to-day. It has been the indiscriminate killing which has caused the practical extermination of fur-seals in the southern

Practical extermination of the seal.

hemisphere.

GEORGE COMER.

Subscribed and sworn to before me, a notary public in and for the District of Columbia, U. S. A., this 15th day of June, 1892.

[L. S.]

SEVELLON A. BROWN.

TESTIMONY RELATING TO PRIBILOF NATIVES.

Deposition of Dr. H. H. McIntyre, superintendent of Alaska Commercial Company on the Pribilof Islands (1870-789.)

CONDITION OF THE NATIVES.

STATE OF VERMONT,
Orange County, ss:

H. H. McIntyre, of Randolph, in said county, having been duly sworn, deposes and says: I am 48 years old and a native of Vermont. I went to Alaska in 1868 and to the Pribilof Islands in 1869 as special United States Treasury agent, and was employed in actual service as superintendent of the seal fisheries of Alaska for the late lessees from 1870 to 1889, inclusive, and in these capacities I visited the seal islands of Alaska every year covered by the above dates except the years 1883, 1884, and 1885, and gained most intimate acquaintance with everything in and about the seal fisheries and with the inhabitants of the islands. It was my duty during all this time to see that they were provided with everything necessary to successfully carry on the seal-fishing business and with all supplies of every description required for the comfort and well-being of the inhabitants of the islands. Experience.

In the matter of the preservation of the fur-seals these inhabitants should receive some consideration. Their ancestors were carried to the Pribilof group more than a century ago, and the majority of the present generation have been born and bred where they now live. They number at present about 350 people who know no other home, and few of whom have ever seen any other land than the islands on which they live. They are a simple-minded, docile, good-natured people, far above the average aboriginal inhabitant of the country in intelligence, as indeed, might be expected of them in this generation, from the fact that the Aleutian blood in their veins is already very much mixed with that of a better quality from Russian and American stock. Very few, if any, thoroughbred Aleuts are to be found in Alaska at the present day. All are devout Christians and earnest believers in the faith of the Greco-Russian Church, observing all its outward forms, and practicing, perhaps, as many of the virtues it inculcates as the average adherent of orthodox Christianity. Dependence on seal herd.
Character.
Christianity.

Very little is known of these people under Russian régime in the early part of this century. If their traditions are to be relied upon they were hardly better off at this time than when in absolute barbarism. Their rulers were hard taskmasters and were themselves but meagerly supplied with such Condition under the Russian Company.

articles as would have materially helped the natives if they could have had them. They labored under the disadvantage of living in a cold, barren, treeless country and having to depend for building material upon the driftwood thrown upon their shores from the rivers emptying into Bering Sea. It was, therefore, impossible for them to make much progress, no matter what the teaching or the example set before them may have been while living, as they were, in their damp, filthy subterranean houses; and more impossible for them to live otherwise than underground until they were furnished with fuel and building material.

These were never supplied by the Russians, and the Americans accordingly found them, upon the cession of the territory to the United States, living in miserable, unhealthy hovels totally unfit for human habitation. The supports for the thatched roofs and turf sides of their houses consisted of the pieces of driftwood or the jaw bones of whales; light was admitted through the opaque medium of raw sea-lion skins, stretched and shaved; the chimney was a hole in the roof, over which a skin was drawn to retain the heat after the fire went out; their fuel consisted of water-soaked splinters of driftwood, upon which was burned the blubber of the seal or whale, emitting the nauseous odors of burning, rancid, ill-smelling animal fats. The smoke from the fire left its greasy deposits upon everything about the premises and emitted a stench endurable only by a sense of smell long inured to it. For light in the long winter nights they had only a small burning wick supported upon the surface of an open vessel of seal oil. Their food consisted almost wholly of seal meat, with rarely a meal of fish or fowl, oftentimes eaten raw in summer, and dried or partially dried and stored in the inflated stomachs of sea lions for winter. A small quantity of rye was furnished them, but their facilities for putting it in edible form were of the most primitive kind, and to this was added a limited quantity of tea and sugar, tobacco and rum. Their clothing was made of skins or of such coarse cotton or woollen cloths as were imported in very limited quantities for their use.

The work which was exacted from the natives under Russian rule was much harder than has since been put upon them. The islands were provided with no teams of any description; the boats were rude affairs, built from pieces of driftwood, whalebone, whale sinew, and sea-lion skins; the storehouses, workshops and tools were ill constructed and inconvenient; all of the skins of the thousands of seals slaughtered each year were transported on the shoulders of the laborers from the field to the warehouses, a great amount of labor expended on each skin in cleaning and drying it, and all were again shouldered from the warehouses to the boats to be lightered to the vessels. In all this work men, women, and children participated, and each received the small stipend of a few kopeks per day or per skin, barely sufficient to pay for the tea, sugar, coarse clothing, and articles of domestic use supplied from the Company's store. Yet even this poor subsistence was furnished directly or indirectly from the seals, excepting a few edible roots and wild vegetables and an occasional fish or fowl at certain seasons of the year. There is absolutely no other source of subsistence at the seal islands.

Since the occupation of the territory by the Americans such a change has taken place in the condition of the natives as occurs in the transition from barbarism to civilization; and such a change as has brought about them those material

Arduous labor under the Russian Company.
Remuneration.
Condition under American control.

evidences of civilization which require for their support and maintenance a constant and assured income. The villages as viewed from the exterior are indicative of their present plane of living and are such as may be seen in the prosperous mining and manufacturing sections of our country, comprising attractive churches, well-designed school-houses, commodious store-houses, and comfortable dwellings, all built in regular order and painted white. During the past twenty years the inhabitants have been constantly supplied with and become accustomed to the use of the same kind and quality of moral training, mental teaching, clothing, food, and medicines as are supplied to and habitually used by our most prosperous communities. If they must surrender these things it means for them a relapse into barbarism; and the destruction of the seal fisheries enforces the surrender. They have no other source of income and know no other business than that of seal-fishing. The income of the two seal-island communities, including only natives, has averaged from 1868 to 1889, inclusive, more than \$40,000 per annum in cash, and, in addition, they have been furnished gratuitously with the houses they occupy, nearly enough fuel to heat them, medicines and medical attendance, school-houses, school books, and teachers. Their moral and mental improvement have very nearly kept pace with the material comfort with which they have been surrounded. The children have learned to read, write, and speak English, and in general intelligence and household economy all have made remarkable progress.

Their dwellings,
food, etc.

Effect of destruction
of seal.

Remuneration.

Moral and mental
improvement.

Rights of the na-
tives in the seal herd.

Is it true that people situated as these natives are acquire no vested right in the property whereon they have immemorially gained their livelihood, which the Christian nations of the earth ought to respect? If it is true, then the precepts of Christianity bear still another and new interpretation.

H. H. MCINTYRE.

Sworn to and subscribed at Randolph, Vermont, this 1st day of August, A. D. 1892, before me.

[L. s.]

WM. H. DU BOIS,
Notary Public.

DATA FOR MIGRATION CHART.

Data compiled from affidavits herewith appended relating to the time the Alaskan herd, during its migration, appears, is in the greatest number, and disappears off various points along the coast.

COAST OF CALIFORNIA, 38° NORTH LATITUDE.

Name of deponent.	Time of appearance.	Time of greatest number.	Time of disappearance.
Maurice Moss	December 20-30 ..	.....	.....
C. H. Bellow	January .....	.....	.....
William Brennan	do .....	.....	.....
J. Johnson	do .....	.....	.....

CAPE FLATTERY, 48° NORTH.

James Claplanhoo	December 20.....	.....	Cows, July 15; smalls, July 15.
J. Lighthouse	December 20-30 ..	.....	July 15.
Ellabash	do .....	.....	Cows, June 15; smalls later.
Peter Brown	December 30.....	.....	July 1-15.
Thomas Zolnoks	December 25.....	.....	Cows, June; smalls, July 15.
Watkins	December 20-30 ..	.....	June.
Osly	January 1 .....	.....	Cows, June 15; smalls, July 15.
Alfred Irving.....	December 25-January 1.	.....	.....
Hish Yulla .....	.....	.....	July (cows earlier).
Wispool	December 20-30 ..	.....	July (cows earlier).
Frank Davis	December 25.....	.....	Smalls, July.
Landis Callapa	December 20-30 ..	.....	July 15 (cows earlier).
Selwish Johnson.....	December-January.	.....	July 1.
A. J. Guild.....	January 1	June 1 .....	.....
John Tysun	December 20-30 ..	.....	July 15.
Charlie White	do .....	.....	July 10 (cows earlier).
Wilson Parker	January 1 .....	.....	Cows, June.
Chad. George	January .....	.....	.....
Geo. Dishoff	do .....	.....	.....
Wm. Brennan.....	do	March .....	.....

QUEEN CHARLOTTE SOUND, 51° NORTH.

J. Neishkaikt.....	March .....	.....	June.
Amos Mill	do .....	.....	June 15.

DIXON ENTRANCE AND PRINCE WILLIAM ISLAND, 54° AND 55° NORTH.

Wm. Clark .....	.....	.....	June 1-10.
Arnold	March .....	.....	June 1.
Henry Haldane .....	.....	.....	Do.
Luke Frank	March .....	.....	Do.
Frank	do .....	.....	June.
Sagua Douglas	do .....	.....	June 1.
Tom Hatcher.....	do .....	.....	.....

Data compiled from affidavits herewith appended relating to the time the Alaskan herd, during its migration, appears, is in the greatest number, and disappears off various points along the coast—Continued.

DIXON ENTRANCE AND PRINCE WILLIAM ISLAND, 54° AND 55° NORTH—Continued

Name of deponent.	Time of appearance.	Time of greatest number.	Time of disappearance.
Jim Kasoon.....	March.....	.....	June.....
King Kaskwa.....	do.....	.....	May 30.....
Jas. Klonacket.....	.....	.....	June 1.....
Robt. Kooko.....	.....	.....	Do.....
Fred. K. Mason.....	March.....	.....	June 15.....
Naston.....	do.....	.....	.....
Smithnatch.....	do.....	May.....	June.....
Dan Nathlan.....	.....	April and May.....	Do.....
Ntkla-ah.....	March.....	.....	July.....
Billy Williams.....	do.....	.....	June 1.....
Fred. Wilson.....	do.....	May.....	June.....
Walter Young.....	.....	.....	June 1.....
Paul Young.....	April.....	.....	.....
Hastings Yethnow.....	March.....	.....	June.....
Abel Ryan.....	do.....	.....	Do.....
Frank Schenklingwas.....	do.....	May.....	June 1.....
Thos. Skowl.....	do.....	.....	Do.....
Geo. Skultka.....	.....	April 30.....	June 15.....
Billy Yeltachy.....	March.....	.....	June.....

SITKA BAY, 57° NORTH.

Peter Church.....	April 15.....	.....	.....
Geo. La Cheek.....	do.....	.....	July 1.....
Mike Kethusduck.....	do.....	.....	June 30.....
John Kowineat.....	do.....	.....	.....
Philip Kashevaroff.....	May.....	.....	.....
P. S. Weittenhiller.....	March.....	.....	.....
Martin Singay.....	April 15.....	.....	June 30.....
Jack Sitka.....	do.....	.....	July 1.....
M. Thikahdaynahkee.....	do.....	.....	Do.....
Charlie Tlaksatan.....	.....	April 10.....	July 4.....
Peter Treashet.....	.....	May.....	.....
R. Walton.....	.....	April 15—May 15.....	.....
M. Wooskoot.....	.....	April 15.....	July 1.....

YAKITAT, 59° NORTH.

Chas. Avery.....	April 1.....	.....	.....
Peter Church.....	.....	.....	June 20—30.....

PRINCE WILLIAM SOUND, 60° NORTH, 147° WEST.

Nicolas Anderson.....	May 1.....	.....	.....
Max. Cohen.....	April 1—10.....	.....	.....
John W. Smith.....	do.....	.....	.....
Frank Korth.....	do.....	.....	.....
Olaf Kavan.....	May 1.....	.....	.....
Nicoli Gregoroff.....	April 30.....	.....	.....
Peter Adungan.....	do.....	.....	.....
Pavel Shimeakin.....	do.....	.....	.....
Anton Kalishnikoff.....	do.....	.....	.....
Avakoon Kalishnikoff.....	do.....	.....	.....
Miron Aliman.....	do.....	.....	.....
Timofé Chayha.....	do.....	.....	.....
Afanasse Maliek.....	do.....	.....	.....
Maska Koosche.....	do.....	.....	.....
Giorgi Agooklook.....	do.....	.....	.....
Gregory Aogay.....	do.....	.....	.....
Makar Choomoritsky.....	do.....	.....	.....
Yakoff Abakoo.....	do.....	.....	.....
Evan Choomoritsky.....	do.....	.....	.....

Data compiled from affidavits herewith appended relating to the time the Alaskan herd, during its migration, appears, is in the greatest number, and disappears off various points along the coast—Continued.

COOKS INLET, 59° NORTH, 152° WEST.

Name of deponent.	Time of appearance.	Time of greatest number.	Time of disappearance.
Nicoli Apokchee.....	May 1-10		
Peter Abankook.....	do		
Stephan Langwalie.....	do		
Gyfym Movin.....	do		
Denis Malzoff.....	do		
Wasryyan Ofkew.....	do		
Pavel Ofkew.....	do		
Pavel Ringhook.....	do		
Wm. Foster.....	May 1		
Max. Cohen.....	April 15	May 30	
Alex. Shyha.....	May 1-10		
Metry Monin.....	do		
Nicoli Noojook.....	do		
Stephan Tooohyk.....	do		
Alexy Mahagak.....	do		
Tekan Ivanoff.....	do		
Alex. Kamlook.....	do		
Peter Charashook.....	do		
Stephan Apavelook.....	do		
Alexy Abakee.....	do		
Simeon Tanapee.....	do		
Nicoli Kashagak.....	do		
Tekan Kookew.....	do		
Pavel Abanyngaw.....	do		
Peter Abangac.....	do		
Theo. Vassili.....	April 15	June 15	
Wm. Rohde.....	May		
Anderson Andw.....	June 1		
Peter C. Miller.....	May		

KADIAK AND AFOGNAK, 58° NORTH, 152° WEST.

Duff.....	April 25		
M. L. Washburne.....	April 30	May 30	July 15.
John C. Tolman.....		June 1	

UNGA ISLAND, 160° 30' WEST.

Wm. Foster.....	June 1		
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UNALASKA, 166° WEST.

G. E. Miner.....		July 10 (?)	
Fred. Smith.....		July 1 (?)	
Joshua Stickland.....		July 1-10 (?)	

GLOSSARY.

A.

- Alaska Catch.** The trade term for the sealskins obtained from the Pribilof Islands.
Alaska Seal Herd. The herd of fur-seals frequenting the Pribilof Islands, Bering Sea, and the eastern portion of the North Pacific Ocean.
Alaskas. The trade term for the seal skins of the Alaska Catch.

B.

- Bachelor.** A young nonbreeding male seal from one to five or six years of age. Syn. *Holluschick* and *Dog*.
Barabara. A large sod-covered hut formerly used by the Pribilof natives as a dwelling.
Beachmaster. A term used by antarctic sealers to designate a breeding male seal. Syn. *Bull*, *Seecatch*, and *Wig*.
Bedlimer. A harp-seal twelve months old.
Bidarka. A small skin-covered canoe.
Breaching. The act of seal while swimming, leaping from the water like a dolphin.
Breeding Grounds. That portion of a *Rookery* which the breeding seals frequent and where the *pup seals* are born.
Bull. A breeding male seal of six or seven years of age. Syn. *Seecatch* and *Wigs*.²

C.

- Clapmatch.** See *Cow*.
Copper Catch. The trade term for seal skins obtained from the Commander Islands. Syn. *Russian Catch*.
Coppers. The trade term for seal skins of the *Copper Catch*. Syn. *Siberias*.
Cow. A female seal over one year of age. Syn. *Matka* and *Clapmatch*.

D.

- Dog.** A term used by antarctic sealers to designate a nonbreeding male seal. Syn. *Bachelor* and *Holluschick*.
Drive. The term used to designate the act of driving the seals from the *Hauling Grounds* to the *Killing Grounds* or the herd of seals thus driven. See also *Redriving* and *Overdriving*.

F.

- Feeder.** A term used by pelagic sealers to designate a seal swimming. Syn. *Traveler*.
Female Catch. A term sometimes used to designate the seal skins of the Alaskan herd obtained by pelagic sealing, because of the majority being females. Syn. *Northwest Catch* and *Victoria Catch*.
Finner. A term used by pelagic sealers to designate a seal lying on his back in the water and gently moving his flippers.
Flench. The act of flaying a seal.

H.

- Harp Seal.** A species of hair-seal found in the North Atlantic off the coasts of Newfoundland and Labrador; so called because the stripes on the back of the animal give the back some resemblance to a harp.
Haul up. The act of seal in drawing itself up onto the shore, used to express the seals landing.

- Hauling Grounds.** That portion of a *Rookery* frequented by nonbreeding male seals. Located back of or to one side of the *Breeding Grounds*.
- Holluschick** (plural, *Holluschickie*). A corruption of the Russian word "Kholostiak," a term used by the natives of the Pribilof and Commander Islands to designate a nonbreeding male. Syn. *Bachelor* and *Dog*.
- Holy Seecatch** (Russian, *Polu-saykatch*.) A young breeding male seal.
- Hood Seals.** A species of hair-seal.

K.

- Kench.** The act of salting and packing away seal skins in the bins in the *Salt Houses*.
- Killing Grounds.** The place to which the nonbreeding male seals are driven by the natives from the *Hauling Grounds* and where the seals are killed. Located a short distance from the *Hauling Grounds*.

M.

- Matka** (plural, *Matkie*.) A female seal over one year old. Syn. *Cow*, *Clapmatch*.

N.

- Northwest Catch.** The trade term for seal skins of the Alaskan herd obtained by pelagic sealing. Syn. *Victoria Catch* and *Female Catch*.

O.

- Overdriving.** The act of driving seals so rapidly as to cause them to die of exhaustion.

P.

- Pelagic Sealer.** One engaged in *Pelagic Sealing*.
- Pelagic Sealing.** The act of hunting seals in the water.
- Pinky Skins.** Seal skins which are spoiled by reason of the blubber, with which they are lined, becoming decayed.
- Pod.** A small group of pups or bachelor seals.
- Podding.** The gathering together into groups, called "pods," of pup seals; or the separating a small number of bachelor seals into a group.
- Pup.** A young seal of less than two years old. A *black pup* is a seal less than two months or ten weeks old. A *gray pup* is a pup over two months old. The names come from the color of the hair, which changes.

R.

- Raids.** The act of unlawfully landing on *Rookery* and killing seals thereon.
- Redriving.** The act of driving unmarketable nonbreeding males for several consecutive days from the same *Hauling Grounds*.
- Roller.** A term used by pelagic sealers to designate a seal resting on the surface of the water, a-rolling over every few moments.
- Rookery.** A shore on which seals come on land. It is divided into two parts, *Breeding Grounds* and *Hauling Grounds* (which see).
- Russian Catch.** The trade term for seal skins obtained from the Commander Islands. Syn. *Copper Catch*.

S.

- Salt House.** A house erected for the purpose of salting and packing seal skins and of storing the same on the islands.
- Seecatch** (plural, *Seecatchie*). A corruption of the Russian word "Saykatch," a term used by the natives of the Pribilof and Commander Islands to designate a breeding male seal. Syn. *Bull*, *Wig*, and *Beachmaster*.
- Siberias.** A term sometimes applied to the seal skins taken on the Commander Islands. Syn. *Coppers*.
- Sleeper.** A term used by pelagic sealers to designate a seal sleeping on the surface of the water.
- Stagy Skins.** Seal skins taken from the animal while it is shedding its hair.

T.

Traveler. A term used by pelagic sealers to designate a seal swimming. Syn. *Feeder*.

V.

Victoria Catch. A term sometimes employed to designate the seal skins obtained from the Alaskan herd by pelagic sealing. Syn. *Northwest Catch* and *Female Catch*.

W.

Wig. A term used by antarctic sealers and furriers to designate a breeding male seal. Syn. *Bull*, *See catch*, and *Beachmaster*.

Also the bunch of long coarse hairs on the neck of a male seal; the mane.

Y.

Yellow-bellies. Two year-old male fur-seals.

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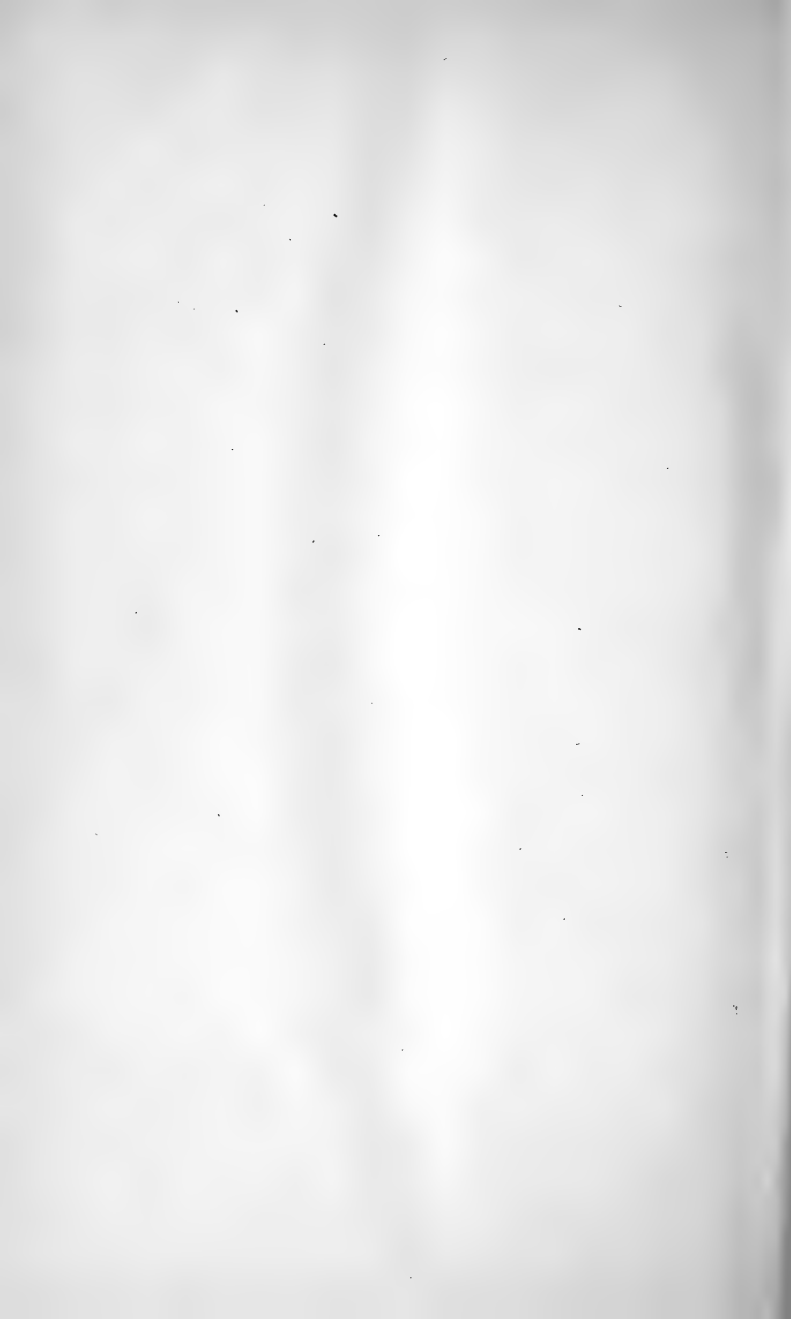
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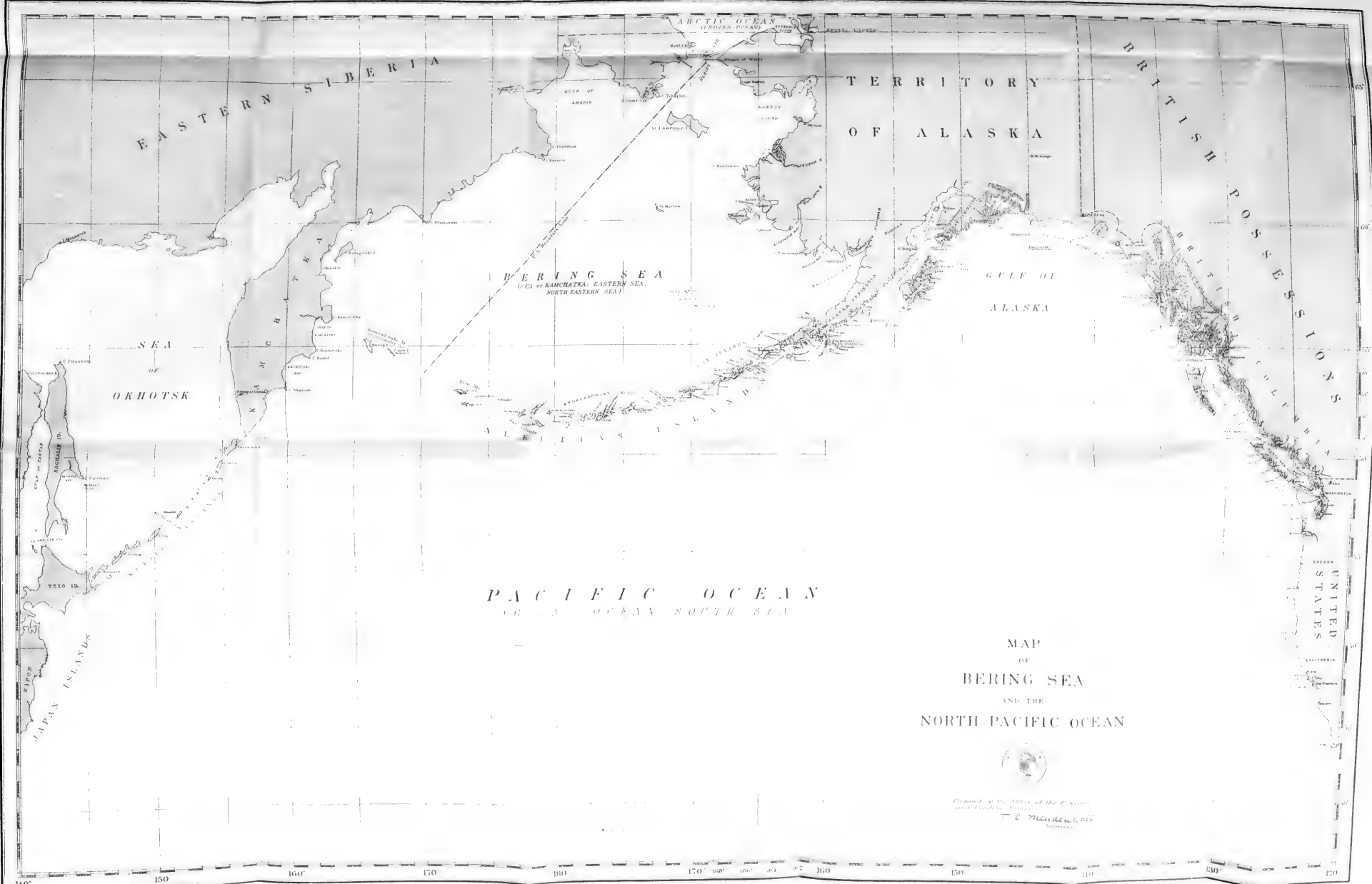
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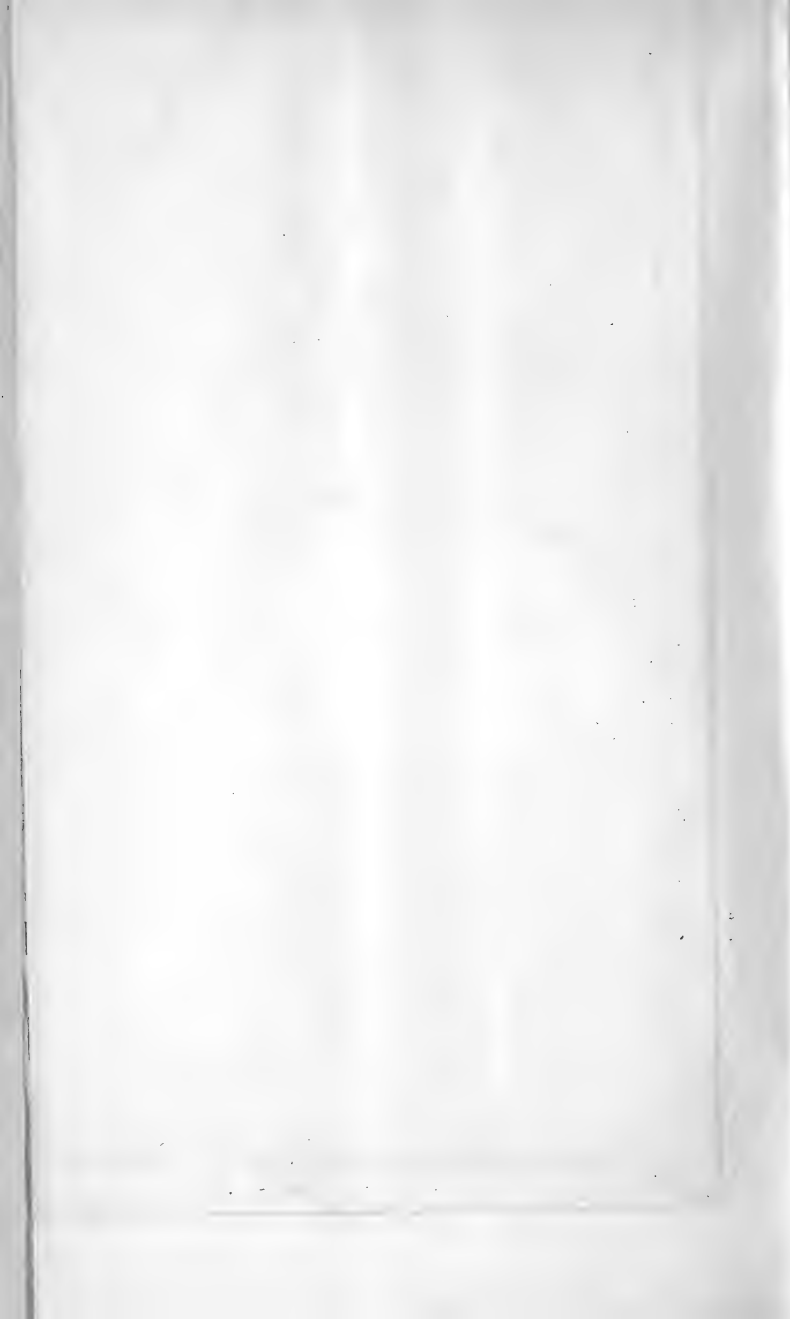


PACIFIC OCEAN
OR THE OCEAN SOUTH SEA

MAP
OF
THE
BERING SEA
AND THE
NORTH PACIFIC OCEAN

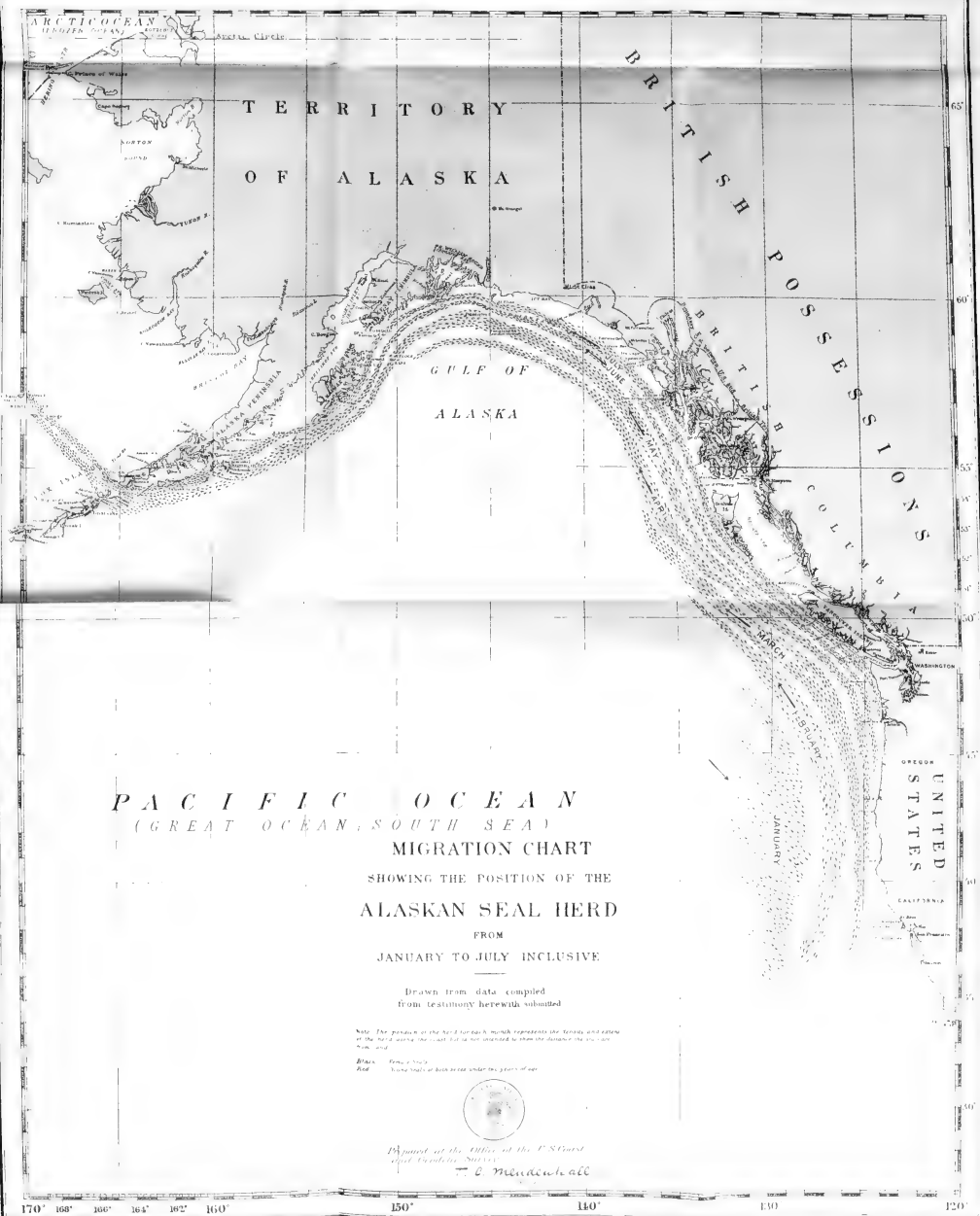


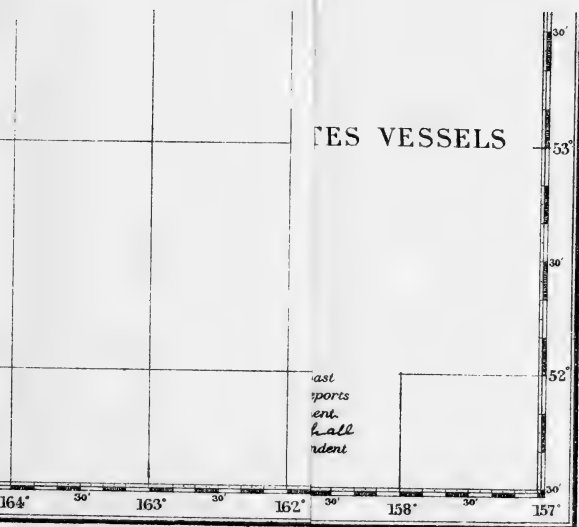
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B E R I N G S E A

SEALING CHART

Showing the position and
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BERING SEA

and

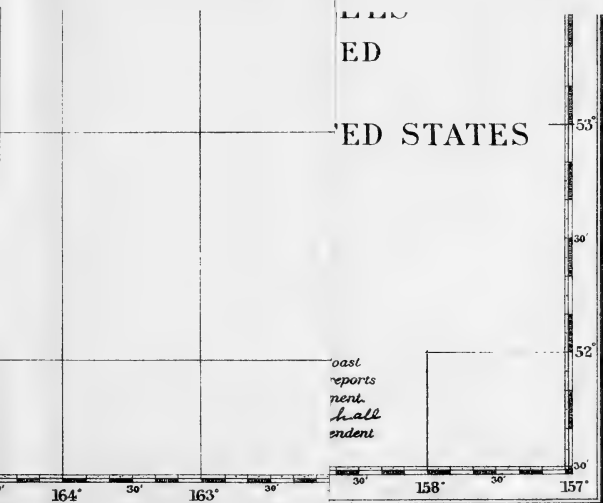
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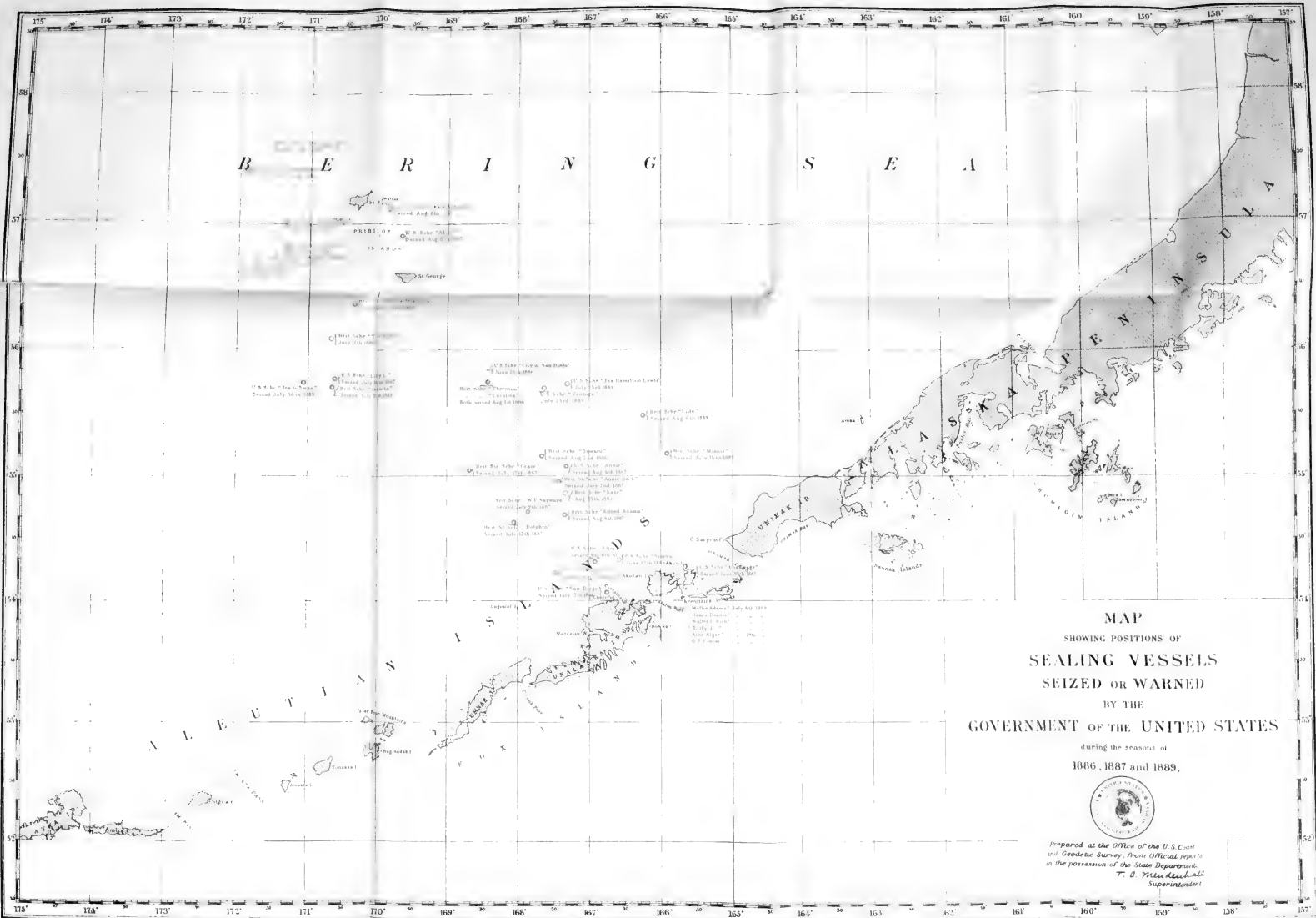
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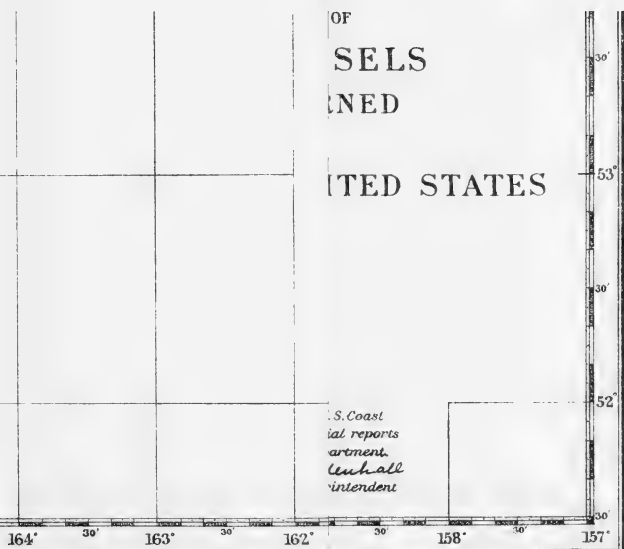
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T. O. Mendenhall
Superintendent



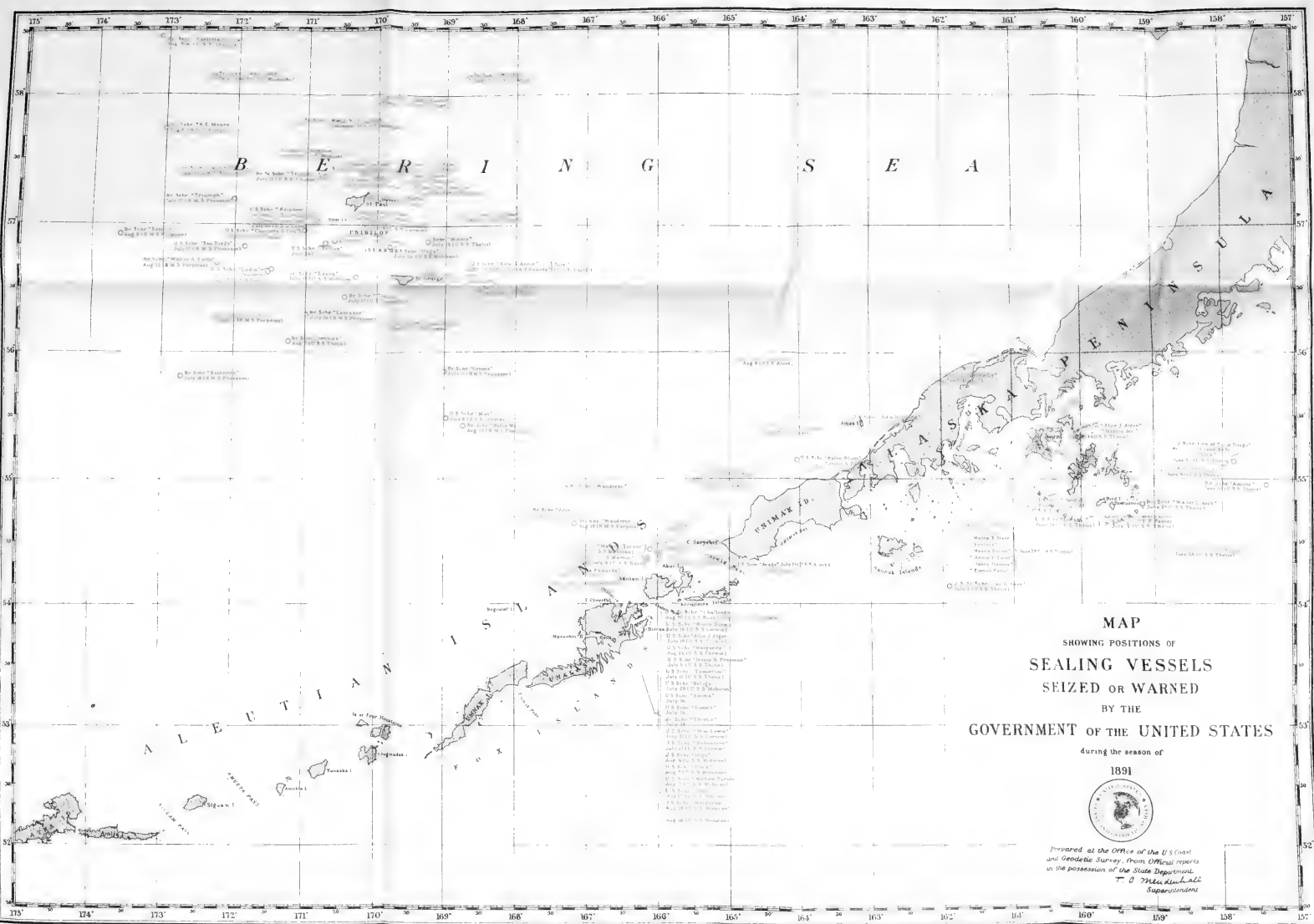














North-East Pt.

Sea Lion

Sea Lion

Sea Lion Pt.

— Breeding Grounds 1898
 — " " 1882
 — " " 1870
 — Area hatched over in 1898

**NORTHEAST POINT ROOKERY
 ST. PAUL ISLAND
 Bering Sea-Alaska.**

Surveyed by
 JOSEPH STANLEY BROWN
 1898

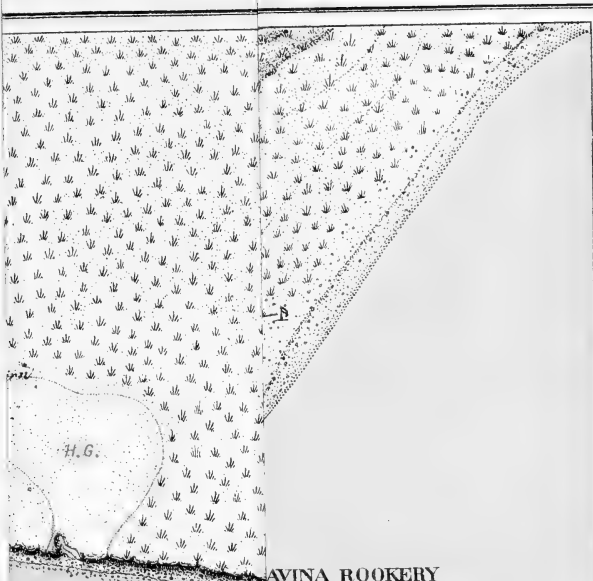
Scale 57.1: 1 inch
 Contour interval approximately 40 feet

Undisturbed area - mixed vegetation
 Area disturbed from time to time by seals hauling
 kelp or uniform grass

INDEX CHART

North-East Pt.





AVINA ROOKERY PAUL ISLAND g Sea-Alaska.

Surveyed by
PH STANLEY BROWN.

1891

ate: 523 ft. 1 inch 3 inches.

terval approximately 10 ft.

ed area - mixed vegetation.

urbed from time to time by seals hauling,
uniform grass.

Grounds.....1891
" 1882
" 1870
led over in 1891

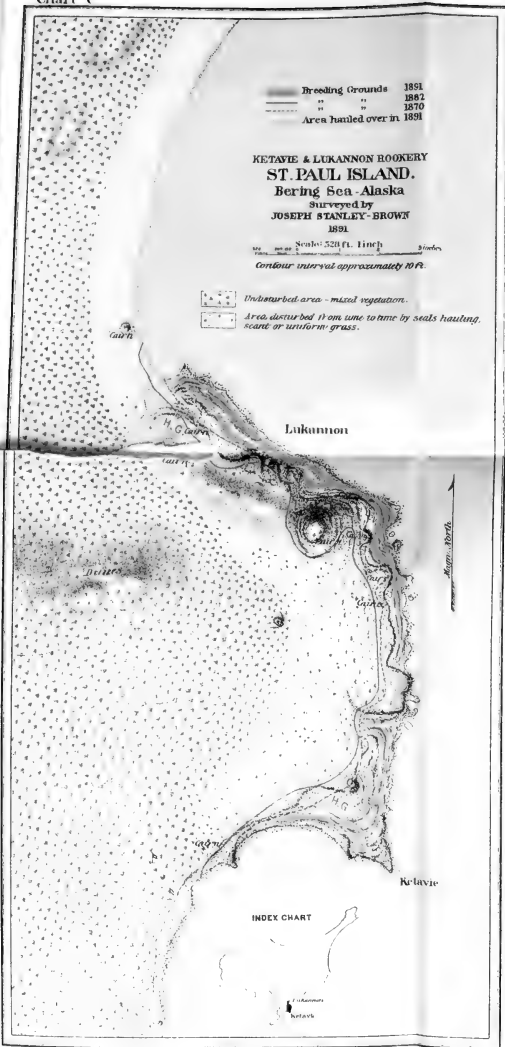




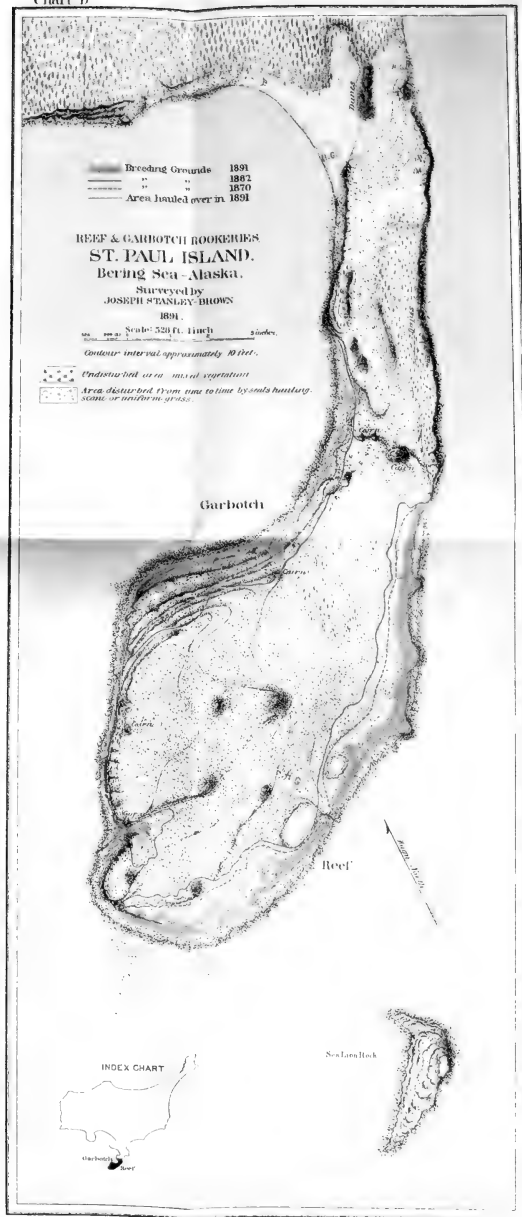




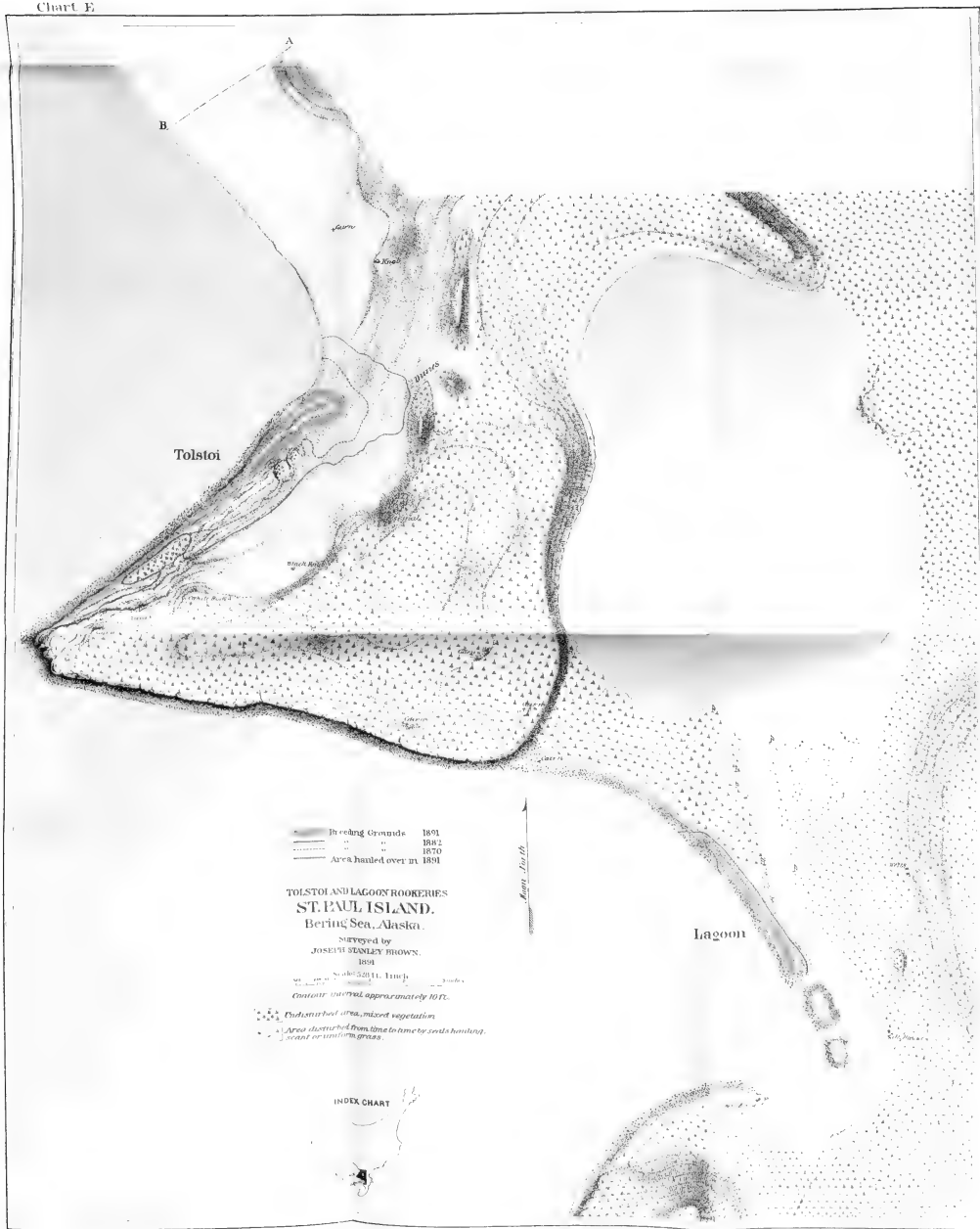
Chart C



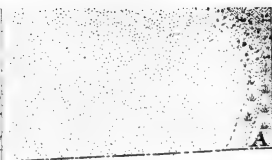
(Chart D)











A

Lower Zapadni

ZAPADNI ROOKERY
AND
ENGLISH BAY.
ST. PAUL ISLAND
Bering Sea-Alaska.

Surveyed by
JOSEPH STANLEY BROWN
1891.

Scale 528 Ft. Tropic

Sound

Contour interval approximately 100.



Undisturbed area, mixed vegetation.



Area disturbed from time to time by seals hauling,
scant or uniform grass.

— Breeding Grounds. 1891

— " " 1882

— " " 1870

— Area hauled over in 1891



English Bay

INDEX CHART



Upper Zapadni







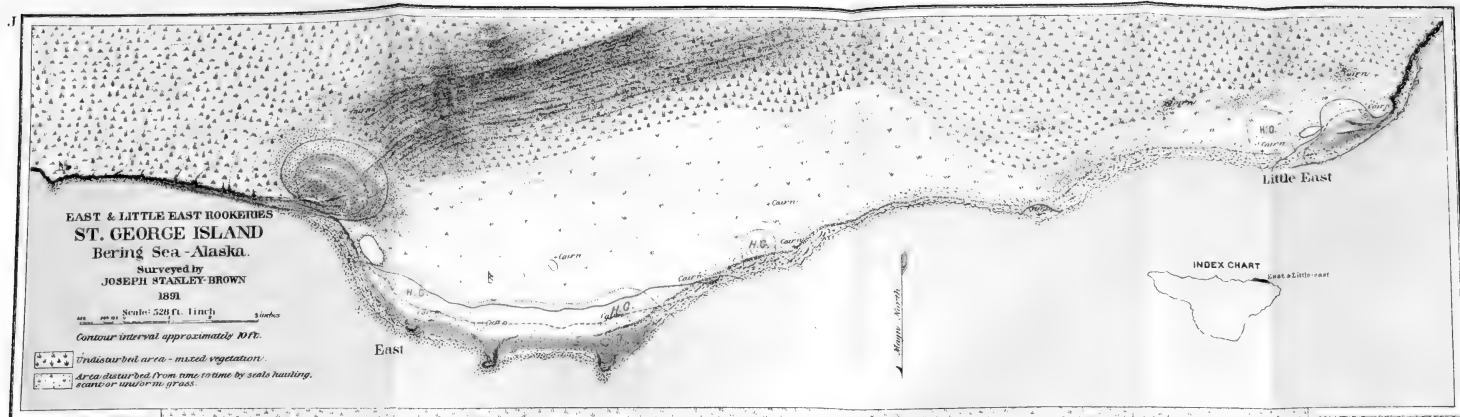


Chart I

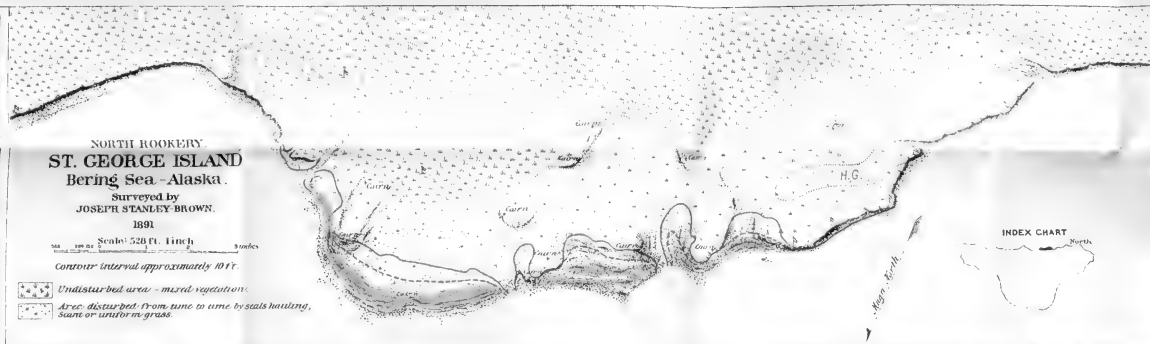
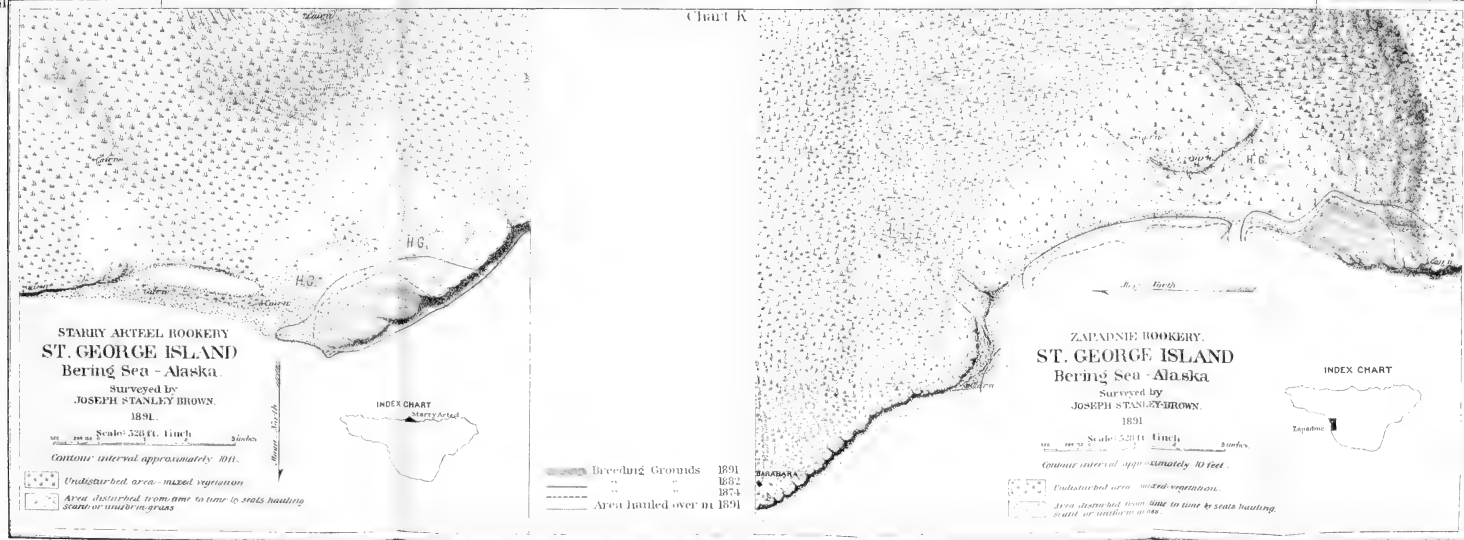
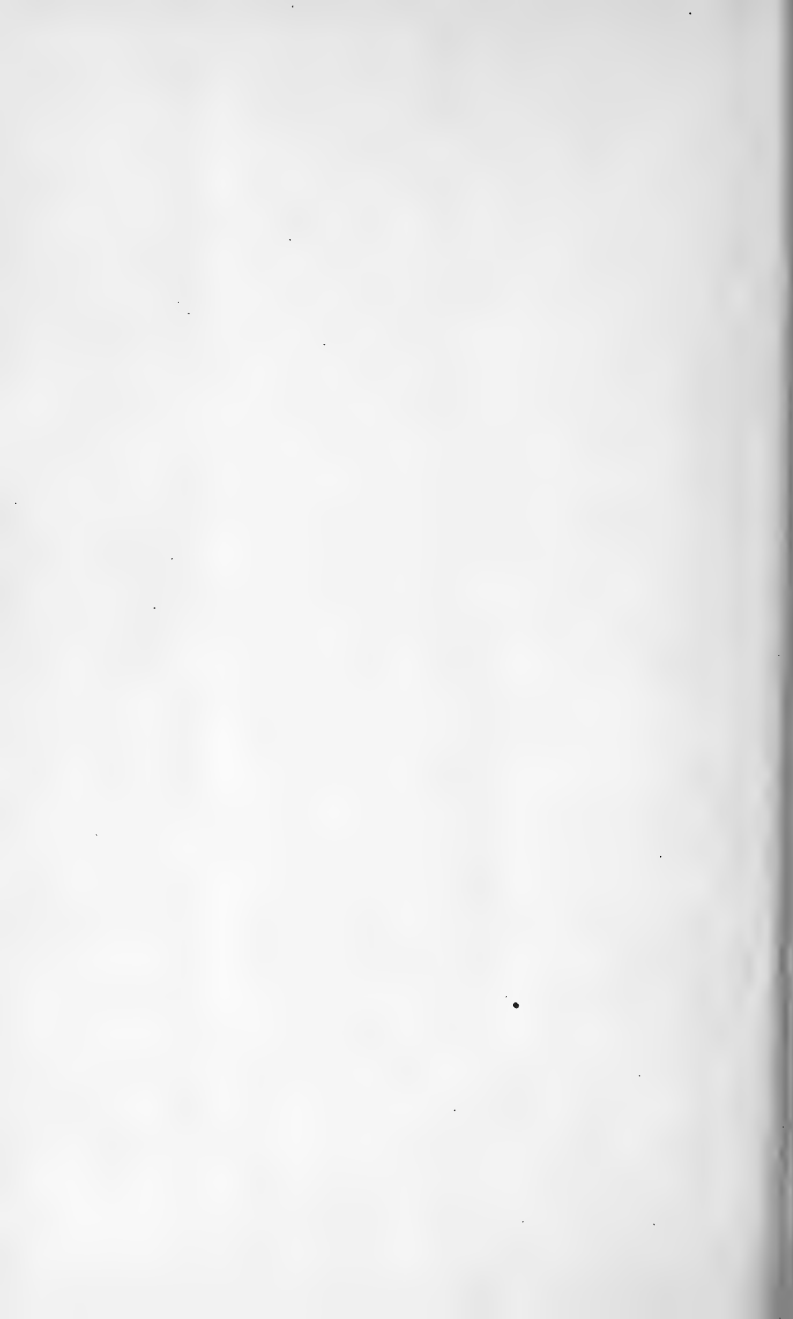


Chart H

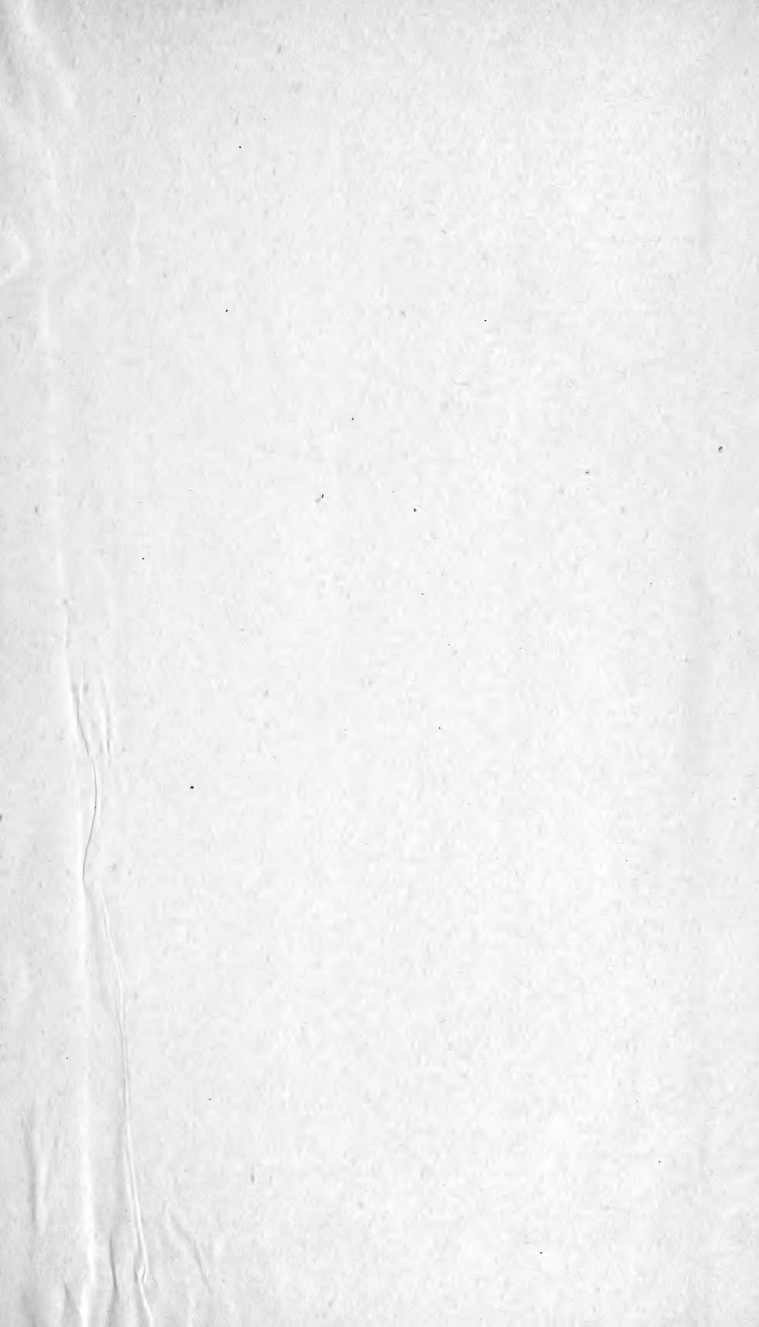
Chart K











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